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UNITED STATES ARMY HEALTH CARE STUDIES AND CLINICAL INVESTIGATION ACTIVITY







AMBULATORY CLASSIFICATION EVALUATION STUDY SERIES

EVALUATION OF THE PRODUCTS OF AMBULATORY CARE AND PRODUCTS OF AMBULATORY SURGERY CLASSIFICATION SYSTEM FOR THE MILITARY HEALTH CARE SYSTEM

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AMBULATORY CLASSIFICATION EVALUATION STUDY (ACES)

The Evaluation of Ambulatory Classification Systems Series

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19. ABSTRACT (Continuation)

The study team utilized a sample of data from the Army Medical Department's Ambulatory Care Database (ACDB) to evaluate the PAC/PAS system. The sample consisted of 516,006 visits from six Army Medical Treatment Facilities (MTFs).

The criteria designed to evaluate the PAC/PAS were:

(1) Clinical Relevance, from a clinical perspective did the groups make sense;

(2) Administrative Ease of Implementation,

(3) Statistical Analysis of the grouper results; (e.g., how accurately does the grouper account for resources); (4) Military Applicability, (e.g., can this system be utilized in an extensive and diverse military environment)?

The results of this investigation indicated a number of significant findings. First, the PAC/PAS groups were developed using sound medical logic. However, this must be tempered with the fact that even with the addition of the surgical visits the PAC groups remain excessively broad in terms of clinical meaningfulness. Second, the PAC/PAS system grouped 99.7% of the ambulatory visits. All twenty-four of the PACs were used but only twenty-eight of the forty-two PAS groups were utilized. Although nearly all the visits grouped, this grouping was not accomplished without some difficulties. For example, the logic that places the procedures into PAC 21 (Audiological Testing) requires that the procedures be performed by an audiologist. In the Army, an audiology procedure might be performed by a technician rather than an audiologist, thus causing the visit to be grouped into another PAC.

Other misgroupings were a result of differences in clinic organization. For example, the Army has audiology clinics, but the PAC grouper does not recognize this entity and treats this as a part of the ears, nose and throat (ENT) clinic. Despite these differences, the PAC/PAS appeared to be grouping appropriately. Third, the variables required for the grouping program are readily obtainable. Fourth the results of the statistical analyses of the PAC/PAS grouper using cost formulas developed by the study

team varied depending on the cost formula employed.

The amount of variance accounted for (amount of resources accounted for by the model) varied from 0.07 to 0.29. The relatively small amount of variance accounted for may be due to a number of factors. One factor is the rudimentary nature of the ACES cost methodology. A second factor is the difficulty in applying any grouper to a different population from which it was developed.

In summary based on the results obtained in this study, the Products of Ambulatory Care (PAC), and the Products of Ambulatory Surgery (PAS) have a number of positive aspects. With modifications, this system would merit strong consideration as a viable system for the military to use as an ambulatory classification system for the purpose of allocating resources.

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assistance, but especially for her patience in working with a "difficult" study director.

EXECUTIVE SUMMARY

The Ambulatory Care Evaluation Study (ACES) examined the Products of Ambulatory Care (PACs) and Products of Ambulatory Surgery (PAS) developed by the State of New York Department of Health for possible implementation by the military. The PAC/PAS system is a visit based ambulatory classification system designed to group clinically similar visits with those visits that utilize like amounts of resources. The system was developed with data derived from a comprehensive data set of 10,000 visits from outpatient and free standing clinics, located in Bronx County, and New York State's Northeast region. An individual patient visit is assigned to a PAC using a combination of gender, age, procedure(s) based on the Physicians Current Procedural Terminology (CPT) and diagnosis according to the International Classification of Diseases, 9th Edition with Clinical Modification, (ICD-9-CM). A patient visit is assigned to a PAS if the procedure is defined as a surgical procedure.

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In summary based on the results obtained in this study, the Products of Ambulatory Care (PAC), and the Products of Ambulatory Surgery (PAS) have a number of positive aspects. With modifications, this system would merit strong consideration as a viable system for the military to use as an ambulatory classification system for the purpose of allocating resources.

INTRODUCTION

In the 1986 Omnibus Budget Reconciliation Act (OBRA), Congress directed the Health Care Financing Administration (HCFA) to develop an Outpatient Prospective Payment System (PPS) for the facility component of Medicare. This directive was based on the success of Medicare's inpatient facility prospective payment system in controlling medicare expenditures. In accordance with this mandate, HCFA issued grants to various organizations to develop a prospective payment system for the facility component of ambulatory care. Based on this mandate, Congress in the National Defense Appropriation Act of 1987, (NDA 1987, P.L. 99-661. Sec. 701, USC 1101), directed the Department of Defense, (DOD), to revise the method of allocating resources within the military health care system. The act specified that DOD implement a Diagnosis Related Groups (DRGs) type system to allocate resources to its medical treatment facilities (MTFs). The system for inpatient care was scheduled for implementation on 1 October 1987, but was not implemented until 1 October 1988. The system for outpatient facility resource allocation was initially scheduled for implementation on 1 October 1988. However, recognizing the challenges in developing an ambulatory classification system, Congress, in subsequent National Defense Authorization Acts (NDAA) for fiscal years' 1989-1991, extended the deadline for the implementation of an outpatient system until 1 October 1993. At the time of this report (September 1992),

Congress had not selected an outpatient prospective payment system.

Purpose of the Study

To assist the DOD in meeting of the objectives of the congressional mandate and to study the potential impact of a new method of allocating resources, the U.S. Army Medical Department initiated the Ambulatory Classification Evaluation Study (ACES). The purpose of the study was to review the available ambulatory classification systems for possible implementation by the military. The ACES study team utilized military data that was collected from the Army Surgeon General's Ambulatory Care Data Base (ACDB) Study (Georgoulakis, et al., 1988).

DEVELOPMENT OF THE PRODUCTS OF AMBULATORY CARE AND PRODUCTS OF AMBULATORY SURGERY CLASSIFICATION SYSTEM

The Products of Ambulatory Care (PACs) were developed by the New York State Health Department (Tenan, et al., 1988) under a grant from the Health Care Financing Administration (HCFA). This report will re-examine the PACs to determine the changes that will occur in the overall effectiveness of the PACs as an ambulatory classification system as a result of adding the PASs to the grouping model. The PACs were added to the PAC system in 1990, as an effort to develop a more comprehensive system. The PACs is an ambulatory care classification system designed for reimbursing hospital clinics and community health centers for Medicaid patients. PACs are based on the concept of bundling together the medical services typically received by well defined groups of patients. The medical services provided to these

patients include all the labor (professional) and ancillary service costs related to a specific visit. These service bundles are the case mix sensitive part of the PAC price. The second part of the PAC price is composed of a facility specific cost component.

Prior to the development of the PACs, the New York State Department of Health Ambulatory Care Reimbursement Study Group reviewed previous efforts to classify ambulatory care services. Concurrently, they collected a comprehensive data set of approximately 10,000 visits from outpatient and free-standing clinics, located in Bronx County and New York State's Northeast region. Dental, mental health, ambulatory surgery, emergency department, and renal dialysis clinics were not included in the sample nor in the resulting initial classification system. However, a small number of mental health services such as discharge planning, or drug and alcohol counseling services were also collected. Following critical element edits and a review of the data by clinical advisory groups, an expense methodology was developed to account for labor, ancillary and facility costs. Employing the Statistical Analysis System (SAS) in conjunction with Autogroup (a software program for grouping medical data) in an iterative process with their clinical advisory groups, patterns of relationships among services and procedures were established. Finally, based on the intersection of patient characteristics (i.e., age, gender) and services (i.e., diagnosis or management), twenty-four mutually exclusive PAC groups were established.

The PAC system has been serving as a payment system in New York since 1987. Moreover, according to Herb Fillmore of the New York Health Department (personal communication 19 April 1991), this method of payment has not only met with acceptance by Medicaid providers in New York State, but has resulted in additional providers requesting consent to participate in the demonstration project. In early 1990, the PACs were expanded to include Ambulatory Surgery visits (Products of Ambulatory Surgery-PASs), and in the process the total number of groups was increased from the original 24 to 66. Unlike the PACs that group visits using a combination of gender, age, procedure(s), and diagnosis(ses), the PAS groups only according to procedure(s) contained in the Physicians' Current Procedural Terminology (CPT). If a visit contains a specific procedure, that visit is grouped into the PAS that contains those procedures. A complete list of procedures, by CPT, and the corresponding PAS are listed in Appendix A. Appendix B contains a similar listing but this list is ordered by PAS number rather than procedure code.

METHODOLOGY

Sample

An effective evaluation of any ambulatory classification system is best accomplished through the use of a large data base containing a diversity of patients (i.e., age and gender) and types of visit (i.e., procedures and diagnoses). The ACES team

used a sample of data from the Army Medical Department's

Ambulatory Care Data Base Study (ACDB) which met these requirements (Georgoulakis, et al., 1988). Researchers conducting the

ACDB study collected clinical data on visits from all outpatient
departments. During the twenty-one month data collection phase
of the study, over 3.1 million patient visits were recorded from
six study hospitals. These visits represented care provided by
more than 4,000 health care providers across all Army outpatient
medical specialties. For the purpose of this study, the researchers randomly selected 516,006 visits from the 3.1 million
visits contained in the data base. This data is referred to as
Sample 1.

Data Collection Instruments

Because of the magnitude of the project, Mark Sense Technology was selected as the most appropriate and cost efficient method of data collection. Mark Sense Technology allows for pencil entries to be electronically scanned for data and subsequently entered into a computerized data base. In order to gain the most benefit from the study, a data collection form was developed for each specialty. The patient collection instruments consisted of the same categories of data elements across all specialties. The forms contained four sections, the first section was completed by the patient and consisted of identifying information (e.g., social security number, age). The second section contained administrative information that was completed by the clinic receptionist or secretary. An example of this type

of information is the location of visit (e.g., clinic, ward, home, etc.) The third and fourth sections required completion by health care providers. Elements in this section included length of time spent with the patient, diagnoses and procedures, disposition, etc.

Study Hospitals

The six hospitals selected for the study, having diverse missions and populations, constituted a representative sample of Army Medical Department health care. Collectively, these hospitals serve a catchment area population of nearly a half million (424,000) beneficiaries. For example, Brooke Army Medical Center (BAMC), Fort Sam Houston, Texas (San Antonio) is a 500 bed facility, that in addition to providing a complete array of outpatient services is a teaching hospital and operates a Level I trauma center. BAMC serves over 17,000 active-duty military personnel; 53,000 military family members, and 39,000 retired military beneficiaries (Annals of Emergency Medicine, 1989). Additionally, BAMC serves as one of three trauma centers in San Antonio, accepting all unstable civilian emergencies within its geographic catchment area. Womack Army Community Hospital, Fort Bragg, North Carolina, (Fayetteville) is a 300 bed facility and in addition to providing extensive outpatient services, contains a Level II trauma center. Womack provides care to the 82nd Airborne Division as well as large family member and retired military populations. The total population served is in excess of 125,000 beneficiaries. The remaining four hospitals

in the study operate Level III emergency departments. Moncrief Army Community Hospital, Fort Jackson, South Carolina, (Columbia), provides access to a large population of basic trainees, some tenant troops (troops who have their headquarters at a different installation), retirees, and family members. Moncrief also provides a full array of outpatient services and operates 175 beds. Moncrief's catchment population contains slightly more than 55,000 beneficiaries. Blanchfield Army Community Hospital, Fort Campbell, Kentucky, (Clarksville), is a 200 bed facility and provides services to the 101st Airborne Division, family members and a retired population. beneficiary population of Blanchfield is approximately 70,000. Bayne-Jones Army Hospital, Fort Polk, Louisiana, (Leesville), operates 150 beds, as well as providing a full array of outpatient services to service members, their families, and retirees. Bayne-Jones catchment population is around 40,000. The final medical treatment facility included in the study was Fox Army Community Hospital at Redstone Arsenal in Huntsville, This hospital serves a stable military and beneficiary population of approximately 25,000 individuals. Fox primarily provides outpatient services and is a 100 bed facility.

Clinical Reliability Of The Data

To provide an accurate and objective assessment of the quality of the data collected in the ACDB, a standardized scoring instrument was developed. Utilizing a modified Delphi technique (Polit & Hungler, 1983) the most important administrative and

clinical data elements collected in the patient visits was determined. Each of the data elements was then discussed, rank ordered, and assigned a relative value in terms of importance to the study. Using this weighing process, members of the study group selected three administrative and two clinical data elements. The data elements which represented the administrative area included the sponsor's social security number with the patient's family member prefix, the date of visit, and the clinic code. The selected clinical data elements consisted of the primary diagnosis, procedure, code, and the health care provider identification code. Following a pilot study, a sample of 9,015 medical records were compared with the ACDB records. An analysis of the records indicated a mean score of 10.56 (11 was the maximum score) and a standard deviation of 1.27. This indicates an extremely high degree of reliability between the medical record and the ACDB record.

Diagnostic and Procedural Code Remapping

Under the direction of the physician member of the Ambulatory Classification Evaluation Study (ACES) staff, the diagnosis and procedure codes that were extended in the ACDB Study were recorded into conventional ICD-9-CM and CPT nomenclature. Consultants from various specialties assisted in recoding more esoteric procedures. Clinical department chiefs at Brooke Army Medical Center (BAMC) provided most consultations. The proximity of BAMC simplified in-person and telephonic consultations.

Unfortunately, many consultants were unfamiliar with CPT codes, so they provided information that the staff physician used to recode the extended procedure codes. In these cases, the consultants did not provide the actual codes but their input assisted the staff physician in making selections. This method of code selection offered greater uniformity and reduced specialty bias in the recoding process.

Some procedures listed on the data collection forms were more specific and some less specific than those in CPT. When the listed procedure possessed multiple CPT counterparts, a CPT code of common or medium technical weight was assigned. This is especially evident in assignment of codes for surgical procedures. CPT specifies surgical procedures by anatomical site, and the ACDB clinical data does not.

The lists of codes for diagnoses were developed based on ICD-9-CM. Additional codes were created so that more specificity regarding diagnoses could be captured. Although these expanded codes provided valuable information, they presented a problem in that the algorithms being used for classification recognized only valid ICD-9-CM codes. Therefore, it was necessary to map any modified diagnosis codes to the most equivalent ICD-9-CM code.

During the ACDB Study, a total of 5,990 different diagnosis codes were utilized. Of these codes, a little less than one third (1,890) were modified ICD-9-CM codes.

Under contract, two companies Code 3 and Health Systems

International remapped the extended diagnosis and procedure codes to the appropriate ICD-9-CM and CPT classification system. This involved approximately 70% of the diagnoses and procedures that required remapping. In most cases, Code 3 mapping of diagnoses was used. Specialty areas either not coded or only partially coded by Code 3 were Nutrition Care, Social Work, Psychology, Occupational Therapy, and those portions of Physical Therapy and Orthopedics associated with appliances and durable medical equipment.

Of the 1,890 modified codes, 101 were from the Social Work forms. Of all the diagnosis mapping, this area was the most difficult, since many problems did not lend themselves to the disease classification system. Examples of these are:

Illiterate; poor money management; unreliable transportation; and resource delay responding to need. However, expertise in this area was available within the study group, and the most appropriate ICD-9-CM choices were made. Diagnosis mapping was reviewed by specialists in many areas and their input was used to produce the final map.

The percentage of diagnoses and procedures requiring recoding varied among specialties. For example, all procedures listed on the Neurology Clinic form were bonafide CPT codes, whereas all procedures listed for Nutritional Clinic were extended codes not found in CPT, since CPT (as mentioned earlier) is designed for physician services.

Many very specific procedures, and frequently minor ones,

with no corresponding CPT codes were recoded to general services codes (minimal, brief, extended service, etc.) This occurred more frequently with the primary care and non-surgical specialties because of the nature of the CPT system. The system contains more codes for surgical procedures thus allowing for greater specificity in that area.

Twenty-one of the 50 most commonly used procedures required coding to general services. The assigned level of service generally corresponded to the estimated amount of time required to perform the indicated procedure (less than 15 minutes was minimal, 15 to 30 minutes was counted as brief, etc.) Supplies and other resources consumed also received consideration during the assignment to general service procedures.

Many ACDB visits contain multiple procedures. Since a number of procedures designated on the data collection forms were recoded to general services, some visits appeared to be a combination of two or more general services (such as a minimal service visit plus a brief service visit). If two codes were mapped to the same code, duplicates were eliminated. Appendices A and B contain code conversions for procedures and diagnoses respectively.

Another problem arising over coding conventions used on the data collection forms centered around the ICD-9-CM diagnosis code V655, described as "Person with feared complaint in which no diagnosis was made." This code was listed on the forms as "No Problem Noted" and was available for use by all health care

providers involved in the data collection effort.

Since over eight percent of visits in the data base contained this diagnosis, a careful analysis by clinic was done. A good number of the V655 diagnoses were for various types of physical exams, including eye exams.

To provide more precision in visits where V655 was used, several corrective steps were taken. If a meaningful secondary diagnosis had been provided, then that diagnosis was used. If no secondary diagnosis had been provided, then other V codes with a higher degree of specificity were selected by the research physician on the team. A list of the more specific diagnosis codes by clinic are provided in Appendix D.

Special Coding Considerations

In order to use pertinent ancillary services data (i.e., number and type of x-rays, number of prescriptions, number of laboratory tests) captured on the front of the data collection form, information had to be translated into a coding format. For example, the Ordered Out of Clinic box contained information on specific types of x-rays like CT Scan and MR Scan. However, no CPT code was used to designate which type of CT Scan or MR Scan was used. The study team physician reviewed the data to determine the most appropriate codes in each case. In some clinics, there was a possibility that a particular radiological procedure might have been marked on both the front and back of the form. In order to avoid double counting of radiological procedures, the algorithm contained in Table 1 was developed.

Some of the information from the front of the form was converted into a CPT procedure code. If by converting this information, the number of procedures exceeded 13, the additional procedure was dropped. Since there were so few cases that exceeded 13, it was not considered to be a problem.

Table 1 contains a list of the radiological and other special procedures with their assigned CPT codes.

TABLE 1: Radiological and Other Special Procedures

| PROCEDURE | CPT CODE |
|--------------------|---|
| Barium Study | 74270 |
| IVP | 74400 (If 74415 was marked on the back of the form, then 74415 was used instead of 74400). |
| CT Scan | 70470 (If 71250 was marked on the back of the form, then 71250 was used instead). |
| MR Scan | 70550 |
| Ultrasound | 76700 (If a code fell within the range of 76500-76999 and was marked on the back of the form, then that code was used instead). |
| Nuclear Medicine | 78801 (If a code fell within the range of 78000-79999 and was marked on the back of the form, then that code was used instead). |
| Angiographic | 75501 |
| Adaptive Appliance | 99070 |
| EEG | 95819 (If a code fell within the range of 95819-95823 and was marked on the back of the form, then that code was used instead). |
| Pulmonary | 94010 |
| Ehg | 95860 (If a code was within the range of 95860-95869 and was marked on the back of the form, then that code was used). |

COST METHODOLOGY

In order to accurately evaluate the various ambulatory classification systems, the development of an equitable per visit

cost was necessary. This presented a significant challenge in that it required a comprehensive individual cost for each patient encounter (visit) in the ACDB data file.

The study team developed four different methods to approximate a visit cost. The development of the various methodologies was necessary because military hospitals do not use a civilian type cost methodology that is capable of producing a "cost" or more precisely a "bill" for each individual visit. Military hospitals are funded from various funding sources. For example, military pay and allowances are paid from a general fund account and may be regarded as "sunk" costs in that they are paid to military health care providers regardless of the number of patients to whom they provide care. Civilian health care provider salaries and benefits are resourced from major command allocation of funds, balanced with authorized personnel ceilings. The medical treatment facility commanders, once given their allocations of personnel, have nominal authority to manage personnel and associated cost. Normal capital expenses, new buildings and equipment, are provided subject to availability of funds, from major commands or higher command levels and are not included in the hospitals's operating budget.

Utilities are considered installation operating expenses and, as such, is not included in the hospital's operating budget. However, it should be mentioned that such installation expenses are captured in the Medical Expense Performance Report System (MEPRS) at the medical facility level. This and other expense

data elements, as products of the MEPRS system will play a significant role in ambulatory care resourcing. Finally, it was not possible for the study team to develop cost methodologies associated with indirect health care cost (i.e., provider malpractice insurance, forms, and other such indirect costs). Nevertheless, as the military adapts to new ambulatory costing and resource allocation methodologies, all inclusive expense data is vital to insure fair and equitable medical treatment facility funding.

Definitions of Cost Formula Components

A description of the various components that make up the cost formulas follows:

ANCILLARY: For those laboratory procedures indicated by CPT procedure codes within the range of 80002 - 89399, a percentage of the CHAMPUS rate was used. The following steps were taken to calculate this percentage. A military average for laboratory was calculated (total number of visits in the sample, 516,006 multiplied by the average per visit MEPRS laboratory reimbursement of \$3.36). This total was divided by the actual number of laboratory procedures performed (152,982) to provide an average cost per procedure of \$11.33. The average for all CHAMPUS laboratory procedures was \$18.25. The percentage of military to CHAMPUS (\$11.33/\$18.25) was 62.1%. This percentage was

applied to laboratory procedures indicated on the back of the data collection form.

CHAMPUS:

These rates are based on the CHAMPUS prevailing rate for each CPT procedure. The CHAMPUS prevailing rates (the amount of money paid) for a specific procedure is derived from a review of the total number of claims for a particular state. The claim(s) are paid at the 80th percentile as the prevailing rate for the procedure in that The CHAMPUS prevailing rates in this study were the averages of the regional rates at the time of the data collection. Additionally, the CHAMPUS prevailing rate consists of both a technical component, which accounts for 60% of the prevailing rate, and a professional component accounting for the remaining 40%. (CHAMPUS Fiscal Intermediary Pricing File Extract Report for Fiscal Year 1988, August 1988).

CLMEAN:

An average procedure cost per clinic group was employed for calculating a military supply cost. This average was computed by taking the sum of all CHAMPUS procedure costs for a clinic grouping divided by the number of visits in that particular grouping.

FACCOMP:

The facility component is obtained by using the

following formula: AVERAGE PROCEDURE COST PER
MINUTE MULTIPLIED BY PRIMARY PROVIDER TIME. The
average procedure cost (AVGPROC COST) is 60% (60%
represents the technical component of the CHAMPUS
fee) of the sum of the procedure costs for all
visits within a clinic grouping divided by the sum
of the providers' time for all visits within a
clinic grouping.

LAB:

The number of laboratory procedures ordered during a visit was indicated on the front of the data collection form. This number was then multiplied by a computed average cost. The average cost for laboratory was calculated by multiplying the total number of visits in the sample, 516,006 by the military (MEPRS) average reimbursement per visit of \$3.36. This total was divided by the actual number of procedures performed (152,982) in the sample to provide an average cost of \$11.33 (see Table 8).

LABOR:

The labor cost component used in the formulas consisted of a combination of salary and benefits for military, and salary only for civilians. It is determined by minutes of contact time with patients. The military labor costs were derived from the Composite Standard Rates for Costing Personnel Services-Military. These composite

standard rates for each grade are published annually by Department of the Army, Director of Finance and Accounting, Security Assistance and Cost and Property Accounting Division, Indianapolis, Indiana. Since data were collected across two fiscal years, the appropriate rate for each of the study years was used to determine labor costs. published annual cost (salary and benefits exclusive of medical incentives) for each military pay grade was divided by 2,080 (duty hours per year) to derive a basic hourly rate. This hourly rate was then divided by 60 to obtain a rate/minute scale required by this study. The Civilian Health Care Provider Composite Standard Cost Rates were derived from the General Schedule Salary Tables No. 70 (FY85), No. 71 (FY86), and No. 72 (FY87). These tables are published by the Office of Personnel Management, Assistant Director for Pay and Benefits, Washington, D.C. For purposes of the study, the median step level of five was used within each grade. annual salary was then divided by 2,087 hours (number of civilian productive hours in a calendar year) to derive a basic hourly rate. The hourly rate was then divided by 60 to obtain a rate/per minute scale.

RX: An average cost per prescription ordered was

calculated based on the available MEPRS data. MEPRS cost is spreaded over all visits without taking into consideration whether a prescription was actually ordered for a particular visit. In order to use the more specific visit services which were contained in the ACDB, it was necessary to compute an average cost per prescription and multiply this by the number of prescriptions ordered for a particular visit. The computations for obtaining the average cost uses the MEPRS average rate per visit (\$5.43) multiplied by the total number of visits (516,006). The result was the total reimbursement (\$2,801,912.00). total rate was divided by the actual number of prescriptions (264,070) filled to determine average cost per unit (\$10.61) (see Table 8). The charge for this service was obtained by using 39% of the CHAMPUS rate for those procedures contained in the CPT code range of 70002-79999. Since x-ray procedures have such a wide range of costs (\$27.30 for a plain film to \$661.00 for a CT Scan), it was decided that a percentage rather than the flat military (MEPRS) rate would be more appropriate. The total reimbursement was

X-RAY:

(516,006) in the sample by the average

calculated by multiplying the number of visits

reimbursement per visit (\$2.49) for a total reimbursement of (\$1,284.85.00). This was divided by the number of plain films (55,308) for an average military reimbursement of \$23.23 per plain film. This ratio (\$23,23/\$59.52) of military to CHAMPUS was 39%. This percentage was applied to all radiological procedures including high technology procedures like MRI, CT Scan, etc.

TABLE 2: Basis for Laboratory and Prescription Average Costs

| | TOTAL VISITS | COST PER VISIT | TOTAL COST | N OF PROC | PER UNIT |
|-----|-----------------|-------------------|----------------|--------------|-------------|
| LAB | 516,006 | \$3.36 | \$1,733,780.00 | 152,982 | \$11.33 |
| RX | 516,006 | \$5.43 | \$2,801,912.00 | 264,070 | \$10.61 |

Other Special Cost Considerations

The inclusion of x-ray costs in the study formulas presented a special challenge to the study group as only the number and the general types of x-rays were included in the data collection instrument (i.e., plain films, CT scan). To capture the cost of this important aspect of medical care, a staff physician assigned a CPT x-ray procedure code to each clinic. The decision to assign a particular code to a clinic was based on the most common type of x-ray for that clinic.

Some of the CPT procedure codes used in the study had no corresponding CHAMPUS costs. In order to use these codes, the physician assigned to the team selected a related CPT code to substitute for costing purposes.

The Pain clinic presented another situation which required special treatment. Because of the specificity of the data collection form, duplication of documentation for injections sometimes occurred. To correct this double counting, an algorithm was written which grouped certain CPT procedures together and assigned a cost based on the more expensive procedure.

Summary of Cost Methodology

In summary, the ACES Study team developed various cost methodologies using a variety of sources (e.g., MEPRS, CHAMPUS) to calculate resource utilization for each military health care visit. These cost equations allowed the investigation of various cost concepts using the combined strength of the ACDB data and in some equations, the CHAMPUS prevailing rates. In addition, the MEPRS cost data with its fundamental limitations was used. The development of each equation was an effort to investigate the various cost combinations and variations in those costs with respect to clinic visits in a military health care setting. Because of the limitations of the military cost expense system, the ACES team chose to incorporate the CHAMPUS prevailing rates into a "proxy cost" for cost consideration.

A brief description of the four cost methodologies follows. The first formula uses primarily military costs, the second, civilian. The two remaining formulas only deal with partial costs. COST3 is military labor only and COST4 contains reimbursable costs in the current military system.

COST FORMULAS

A brief explanation of each costing methodology follows: COST1 = FACCOMP + X-RAY + LAB + RX + LABOR.

This equation is a combination of actual and computed military costs. This formula contains as complete a military visit cost as possible to compute with available data.

COST2 = CHAMPUS PROCEDURE RATE

CHAMPUS procedure rate using a minimum rate based on time (100% of CHAMPUS rate for x-ray and laboratory procedures included). This cost formula uses only CHAMPUS rates for costs. The rationale for using only civilian costs (i.e. CHAMPUS) pertains to the aforementioned fact that the system being evaluated is a civilian reimbursement classification system. the CHAMPUS procedure formula provides a cleaner cost model since it is not a mixture of military and civilian costs. However, one disadvantage of using CHAMPUS costs is that they are derived from charges not actual costs. This formula establishes a minimum value for each visit based on the CHAMPUS procedure costs for Office Medical Services. This costing methodology takes into account the fact that in 42% of ACDB visits no procedures were coded. In a civilian community, any visit would contain at least one of the types of services listed in the CPT classification of Office

Medical Services. The Office Medical Services codes allowed for coding of visits which were primarily office visits without a procedure listed elsewhere in CPT. If a visit contained no other procedures, then a basic office visit code was assigned based on the amount of time spent with a patient. The following is a breakdown of the time intervals used to determine each type of Office Medical Service code:

COST3 = Labor only.

This costing methodology looks only at the cost of provider time for a visit. The relationship of health care provider time and its corresponding cost are of vital concern to both military and civilian health care facilities. This formula provides an advantage over using time only because it accounts for the fact that a given quantity of time does not carry the same cost for all health care providers. That is, 30 minutes of a neurosurgeon's time costs considerably more than 30 minutes of a physical therapy technician's time. Unfortunately, the various bonuses given to the different physician specialties were not included in the formula.

^{1 - 15} minutes used CPT-4 code 90000 Brief Service.

^{16 - 30} minutes used CPT-4 code 90015 Intermediate Service.

Over 30 minutes used CPT-4 code 90020 Comprehensive Service.

<u>COST4</u> = (.055 multiplied by CLEMAN) + X-RAY + ANCILLARY + LAB + RX

COST4 represents the sum of reimbursable costs as they currently exist in the Army Medical Department. It includes a computed military supply cost. The 5.5 percent of the CLEMAN represents this computed supply cost. This percentage was derived with the assistance of Herb Filmore, New York State Department of Public Health. Moreover, it should be noted that the 5.5 percent military supply cost compares favorably with the supply cost developed and utilized for reimbursement by the New York State Department of Health. Since it is based on an average procedure cost for a particular clinic grouping, some differentiation in supply cost occurs.

Correlation Among Cost Methodologies

There are a number of methods available to determine the relationship among cost methodologies. However, the most meaningful examines the amount of variance accounted for by each of the cost equations. The relationship among the cost methodologies is provided in Table 3. COST1 and COST3 are highly correlated (.8) in part because of the fact that COST1 includes COST3. COST1 and COST4 are highly correlated (.5) as there is overlap in that both include x-ray, prescription, and ancillary costs. The CHAMPUS (civilian) data is less highly correlated with the military based costs. COST3 and COST4 are not

correlated. There is no overlap and a link is not really expected between labor cost and supply cost since many procedures require no supplies (e.g., psychotherapy). It is important to note that while all the correlation's are statistically significant (p<.05), this is due primarily to the large sample (516,006).

TABLE 3: Relationship Among Cost Methodologies (N = 516,006) Correlation Coefficient

| COST | 1 | 2 | 3 | 4 |
|------|--------|--------|--------|-------|
| 1 | 1.000 | | | |
| 2 | 0.3959 | 1.000 | | |
| 3 | 0.8024 | 0.3376 | 1.000 | |
| 4 | 0.5360 | 0.2310 | 0.1286 | 1.000 |

p<.05 in all cases.

RESULTS

The sample used in this evaluation consisted of 516,006 clinic visits randomly selected from the 3.1 million patient visits contained in the ACDB. These visits represent data collected during the first phase of the data collection period from January 1, 1986, through April 30, 1987. Prior to entering this data into the PAC/PAS grouper, a series of preliminary analyses were conducted to gain a greater understanding of the population under study. The first analysis indicated that of the 516,006 visits, 279,370 (54.15%) consisted of male patients and 236,548 (45.85%) were female patients. In terms of beneficiary status, the retired population (retired service members and their

family members who are eligible for care) represented slightly more of the sample 39.41% than the active duty population (38.09%). The remaining 22.50% of the visits were comprised of family members of active duty military. A complete analysis of all patients in the sample by beneficiary status and location is included in Table 4.

TABLE 4. Patient Visits: By Beneficiary Status and Location (N = 516,006)

| LOCATION | ACTIVE | DUTY | ACTIVE FAMILY | DUTY MEMBER | RETIRED | RETIRED | TOTAL NUMBER | TOTAL PERCENT |
|----------|--------|-------|------------------|----------------|---------|---------|-----------------|------------------|
| | * | % | # | % | * | % | | |
| REDSTONE | 9998 | 1.94 | 11508 | 2.23 | 21966 | 4.26 | 43472 | 8.42 |
| CAMPBELL | 45062 | 8.73 | 27716 | 5.37 | 24108 | 4.67 | 96886 | 18.77 |
| POLK | 3879 | 7.51 | 29315 | 5.68 | 18400 | 3.57 | 86494 | 16.76 |
| BRAGG | 20512 | 3.97 | 15079 | 2.92 | 14305 | 2.77 | 49886 | 9.67 |
| JACKSON | 63089 | 12.23 | 9941 | 1.93 | 41916 | 8.12 | 11955 | 22.27 |
| BAMC | 19140 | 3.71 | 22474 | 4.35 | 82699 | 16.02 | 124313 | 24.09 |
| TOTAL | 196579 | 38.09 | 116033 | 22.48 | 203394 | 39.41 | 516006 | 100.00 |

A second analysis of the visit data was conducted to provide information on the age and gender of the patient. Results of this analysis indicated that the majority of visits (52.24%) were by patients in the 19-34 year old age group. Additional information on the age of the patients by gender for all visits in the sample is contained in Table 5.

TABLE 5: Patient Visits: Gender By Age
(N = 516,006)

| AGE | MALE NUMBER | MALE PERCENT | FEMALE NUMBER | FEMALE PERCENT | TOTAL NUMBER | TOTAL PERCENT |
|-------|----------------|-----------------|------------------|-------------------|-----------------|------------------|
| 0-2 | 15119 | 2.93 | 13877 | 2.69 | 28996 | 5.62 |
| 3-17 | 33472 | 6.49 | 30199 | 5.85 | 63671 | 12.34 |
| 18-34 | 148245 | 28.73 | 121310 | 23.51 | 269553 | 52.24 |
| 35-44 | 28497 | 5.52 | 23522 | 4.56 | 52019 | 10.08 |
| 45-64 | 38147 | 7.39 | 36553 | 7.08 | 74700 | 14.48 |
| 65-74 | 14626 | 2.83 | 10150 | 1.97 | 24776 | 4.80 |
| 75+ | 1298 | 0.25 | 991 | 0.19 | 2289 | 0.44 |
| TOTAL | 279404 | 54.15 | 236602 | 45.85 | 516006 | 100.00 |

When an additional analysis of the data is conducted looking at individual patients rather than visits, the results are basically the same. This analysis counted the demographic information on the patient only one time regardless of the number of visits per patient. Thus, the 516,006 visits represented 231,632 patients. Of these patients, males exceeded females (56.12% to 43.87%). Consistent with previous findings, the age group 18-24 comprised the largest group of patients (51.98%). Further information on individual patient characteristics by gender and age is contained in Table 6.

TABLE 6: Individual Patient Characteristics: Gender By Age (N = 231, 634)

| AGE | MALE NUMBER | MALE PERCENT | FEMALE NUMBER | FEMALE PERCENT | TOTAL NUMBER | TOTAL PERCENT |
|-------|----------------|-----------------|------------------|-------------------|-----------------|------------------|
| 0-2 | 6,940 | 3.00 | 6,475 | 2.80 | 13,415 | 5.79 |
| 3-17 | 17,525 | 7.57 | 15,970 | 6.89 | 33,495 | 14.46 |
| 18-34 | 70,650 | 30.50 | 49,754 | 21.48 | 120,404 | 51.98 |
| 34-44 | 12,661 | 5.47 | 10,323 | 4.46 | 22,984 | 9.92 |
| 45-64 | 16,802 | 7.25 | 15,286 | 6.60 | 32,088 | 13.85 |
| 65-74 | 5,052 | 2.18 | 3,460 | 1.49 | 8,512 | 3.67 |
| 75+ | 373 | 0.16 | 361 | 0.16 | 734 | 0.32 |
| TOTAL | 130,003 | 56.12 | 101,629 | 43.87 | 231,632 | 100.00 |

The final demographic analysis consisted of converting the patient visits into individual patients and obtaining frequencies of the beneficiary status of patients by location. As was expected, the largest group of patients were seen at Brooke Army Medical Center (23.66%), Fort Sam Houston, Texas. However, Moncrief Army Community Hospital, Fort Jackson, South Carolina was a very close second (22.64%). Consistent with previous findings' retirees made up the largest group of patients (42.23%) followed by active duty (35.59%) and family members of active duty (22.27%). Additional information on individual patients by location and beneficiary status is located in Table 7.

TABLE 7: Individual Patient Characteristics
Patient Location By Beneficiary Status
(N = 231,634)

| LOCATION | ACTIVE DUTY N | ACTIVE DUTY % | ACTIVE DUTY DEP N | ACTIVE DUTY DEP % | RETIRED N | RETIRED % | TOTAL | TOTAL % |
|----------|---------------------|---------------------|----------------------------|----------------------------|--------------|--------------|--------|------------|
| REDSTONE | 3347 | 1.44 | 4880 | 1.93 | 10792 | 4.66 | 18619 | 8.04 |
| CAMPBELL | 17794 | 7.68 | 13173 | 5.69 | 11333 | 4.89 | 42300 | 18.26 |
| POLK | 12241 | 5.28 | 9840 | 4.25 | 8046 | 3.47 | 30127 | 13.01 |
| BRAGG | 12972 | 5.60 | 10367 | 4.48 | 10013 | 4.32 | 33352 | 14.40 |
| JACKSON | 27761 | 11.98 | 4376 | 1.89 | 20301 | 8.76 | 52438 | 22.64 |
| BAMC | 8120 | 3.51 | 9341 | 4.03 | 37337 | 16.12 | 54798 | 23.66 |
| TOTAL | 82235 | 35.50 | 51577 | 22.27 | 97822 | 42.23 | 231634 | 100.00 |

The first examination of the data consisted of looking at the number of visits that grouped and how they grouped into the PAC and PAS. Of the 516,006 visits in the sample, 514,413 (99.7%) were placed into one of the 24 PACs or one of the 42 PASs groups. The remaining 1,593 (0.3%) visits did not group due to one of three types of errors: errors in age, 604 (37.9%); errors in gender, 755 (47.4%); and inappropriate diagnoses, 234 (14.7%). The causes for most of these errors were: (1) putting the current date in place of birth date, (2) coding in the wrong gender on the data collection instrument (invalid match between gender and diagnosis), and (3) miscoding diagnoses on the data collection so that the entry was not a valid ICD-9-CM code. The study team attempted to correct these coding errors by (1) reviewing the patient demographic data contained in the patient registration

form and (2) utilizing demographic data contained in the SIDPERS and DEERS data files. Of the 514,413 visits that were placed in either a PAS or a PAC, 506,557 (98.5%) were placed into one of the 24 PACS and 7,856 (1.5%) were placed into 29 of the 42 PAS groups that were utilized. There were 13 PAS groups that were not utilized. Although all the visits grouped, the grouping was not accomplished without some difficulties. For example, the logic that places the procedures into PAC 21 (Audiological Testing) requires that the procedures be performed by an audiologist. In the Army, however, an audiology procedure might be performed by a technician rather than an audiologist thus causing the visit to be grouped into another PAC. Other misgroupings were a result of differences in clinic organization. The Army has audiology clinics, but the PAC Grouper does not recognize this entity and treats this as a part of the ENT clinic. Despite these differences, the PAC/PAS system appeared to be grouping appropriately. Table 8 contains a frequency distribution of visits by PAC.

TABLE 8. Frequency Distribution of Visits by PAC (N = 506,557)

| PAC # | PAC TITLE | N | PERCENT |
|-------|--|---------|---------|
| 8 | MGMT OF CLASS II PROB, ADULT > 17 | 171016 | 33.8 |
| 16 | MGMT OF CLASS III PROBLEM | 61503 | 12.1 |
| 4 | MGMT OF CLASS I PROB, CHILD 0-17 | 54263 | 10.7 |
| 23 | SPEECH & REHAB THERAPY | 31734 | 6.3 |
| 20 | MGMT OF CLASS V PROBLEM | 27752 | 5.5 |
| 14 | MGMT OF REPRODUCTIVE PROBLEM | 26862 | 5.3 |
| 22 | OPHTHALMOLOGICAL SERVICES | 25066 | 4.9 |
| 6 | ANNUAL EXAM, AUDLT > 17 | 23056 | 4.6 |
| 11 | PRENATAL REVISITS, AGE 19-34 | 18726 | 3.7 |
| 7 | DIAG INV OF CLASS II PROB, AUDLT >17 | 15796 | 3.1 |
| 12 | ANNUAL GYNECOLOGICAL EXAM | 8381 | 1.6 |
| 15 | DIAG INV OF CLASS III PROBLEM | 7379 | 1.5 |
| 1 | WELL CARE EXAM, CHILD 0-2 | 6641 | 1.3 |
| 5 | MEDICATION ADMINISTRATION | 4890 | 1.0_ |
| 3 | DIAG INV OF CLASS I PROB, CHILD 0-17 | 4746 | 0.9 |
| 2 | ANNUAL WELL CARE EXAM, CHILD 3-17 | 4700 | 0.9 |
| 19 | MGMT OF CLASS IV PROBLEM | 3939 | 0.8 |
| 21 | AUDIOLOGICAL TESTING | 2694 | 0.5 |
| 10 | PRENATAL REVISITS, OVER 34 OR UNDER 19 | 2567 | 0.5 |
| 24 | DIAG INV W/NUC OR CAT IMAGING | 1529 | 0.3 |
| 13_ | DIAG INV OF REPRODUCTIVE PROBLEM | 1346 | 0.3 |
| 9 | INITIAL PRENATAL EVALUATION | 1036 | 0.2 |
| 17 | DIAG INV OF CLASS IV PROBLEM | 489 | 0.1 |
| 18 | MGMT OF CHEM & RADIOTHERAPY | 446 | 0.1 |
| TOTAL | | 506,557 | 100.0 |

As noted in Table 8, although all the PACs contained visits, the number of visits varied greatly between PACs. For example, PAC 8, "Management of Class II Problems", Adult Age over 17,

accounted for 171,016 visits (33.8%) while PAC 18, "Management of Chemotherapy and Radiotherapy" contained 446 visits (0.1%).

There were no empty PACs. Moreover, given the clinical characteristics of the PAC groups, the number of visits in each group seem appropriate.

In order to determine the effectiveness of the PAS, surgical procedures contained in Sample 1 were classified according to the PAS algorithm. The result of this classification is contained in Table 9.

TABLE 9. Frequency Distribution of Visits by PAS (N = 7,856)

| PAS GROUP NUMBER | PAS TITLE | NUMBER VISITS | PERCENTAGE |
|------------------------|--------------------|------------------|------------|
| 64 | SKIN DX - RX | 5246 | 66.8 |
| 47 | CYSTOSCOPE | 608 | 7.7 |
| 43 | RECTAL DX | 384 | 4.9 |
| 55 | GYN DX | 312 | 4.0 |
| 58 | BONE RX | 238 | 3.0 |
| 42 | LOWER GI DX - RX | 189 | 2.4 |
| 41 | UPPER GI DX - RX | 142 | 1.8 |
| 65 | SKIN REPAIR | 142 | 1.8 |
| 62 | BREAST DX - RX | 76 | 1.0 |
| 34 | RHINO - SEP PLASTY | 70 | 0.9 |
| 52 | MALE GENITAL RX | 50 | 0.6 |
| 36 | NASAL - TRACH ENDO | 49 | 0.6 |
| 48 | UROLOGICAL REPAIR | 47 | 0.6 |
| 40 | VASCULAR DX - RX | 40 | 0.6 |
| 60 | BONE REPAIR | 40 | 0.5 |
| 33 | NASAL - PHAR RX | 36 | 0.5 |
| 29 | EYE TECH RX | 29 | 0.4 |

| 7 | | | |
|-------|---------------------|------|-------|
| 31 | EAR REPAIR | 28 | 0.4 |
| 32 | EAR RX | 28 | 0.4 |
| 25 | NERVE REPAIR | 25 | 0.3 |
| 50 | MALE GENITAL DX | 25 | 0.3 |
| 61 | SOFT TISSUE RX | 16 | 0.2 |
| 26 | EYE RX | 15 | 0.2 |
| 28 | LENS | 5 | 0.1 |
| 66 | UROLOGICAL DX | 3 | 0.0 |
| 37 | THORAIC DX - RX | 2 | 0.0 |
| 27 | EYE REPAIR | 1 | 0.0 |
| 57 | SOFT TISSUE REP | 1 | 0.0 |
| 30 | EYE MUSCLE REPAIR | 1_ | 0.0 |
| 35 | TONSIL - ADENOID RX | 0 | 0.0 |
| 38 | VASCULAR DX II | 0 | 0.0 |
| 39 | VASCULAR REPAIR | 0 | 0.0 |
| 44 | HEPATIC DX - RX | 0 | 0.0 |
| 45 | HEPATIC ENDO | 0 | 0.0 |
| 46 | HERNIA REPAIR | 0 | 0.0 |
| 49 | LITHORIPSY | 0 | 0.0 |
| 51 | G U REPAIR | 0 | 0.0 |
| 53 | LAPAROSCOPY | 0 | 0.0 |
| 54 | OVIDUCT DX - RX | 0 | 0.0 |
| 56 | D & C | 0 | 0.0 |
| 59 | ATHOROSCOPY | 0 | 0.0 |
| 63 | BREAST REPAIR | 0 | 0.0 |
| TOTAL | | 7856 | 100.0 |

As indicated in Table 9, there were 14 (33.3%) empty PAS groups with another 18 (42.9%) containing less than 50 visits each. The largest PAS, #64 contained 5,246 visits which is nearly two-thirds of the total visits (66.7%). A complete

distribution of the range of visits by PAS is presented in Table 10.

TABLE 10. Range of Visits by PAS

| NUMBER OF VISITS | NUMBER OF PAS GROUPS | PERCENT |
|------------------|----------------------|---------|
| 0 | 14 | 33.3 |
| 1-50 | 18 | 42.9 |
| 51-100 | 2 | 4.8 |
| 101-1000 | 7 | 16.7 |
| 1001-5000 | 0 | 0.0 |
| 5001-10000 | 1 | 2.4 |
| TOTAL | 42 | 100.00 |

In order to evaluate the impact of the PAS grouper on the PAC, all the visits that were grouped into PASs were originally grouped into one of the 24 PACs. PAC 8, "Management of Class II Problem", Age over 17, lost 4,605 visits to the PAS grouper, this was 58.5% of the total visits grouped by the PAS. There were three PACs that did not contribute any visits to the PAS. Table 11 presents a complete listing of the 24 PACs and the number of visits that were transferred to the PAS.

TABLE 11: Number and Percent of Visits Re-Assigned to a PAS by PAC of Origin (N = 7856)

| Item Number | PAC Group Number | Product of Ambulatory Care (PAC) Title or Description | Number of Visits | Percent of Visits | Cumu- lative Percent |
|----------------|------------------------|---|---------------------|----------------------|----------------------------|
| 1 | 8 | Management of a Class II Problem, Adult Age Over 17 | 4605 | 58.62 | 58.62 |
| 2 | 16 | Management of a Class III Problem | 1077 | 13.71 | 72.33 |
| 3 | 14 | Management of a reproductive Problem | 546 | 6.95 | 79.28 |
| 4 | 4 | Management of a Class I Problem, Child Age 0-17 | 543 | 6.91 | 86.19 |
| 5 | 19 | Management of Class IV Problems | 307 | 3.91 | 90.10 |
| 6 | 7 | Diagnostic Investigation of a Class II Problem, Adult Age Over 17 | 248 | 3.16 | 93.26 |
| 7 | 15 | Diagnostic Investigation of a Class II Problem | 148 | 1.88 | 95.14 |
| 8 | 22 | Ophthalmological Services | 135 | 1.72 | 96.86 |
| 9 | 6 | Annual Examination, Audlt Over Age 17 | 68 | .84 | 97.27 |
| 10 | 3 | Diagnostic Investigation of a Class I Problem, Child Age 0.17 | 42 | .54 | 98.27 |
| 11 | 13 | Diagnostic Investigation of Reproductive Problem | 33 | .42 | 98.69 |
| 12 | 17 | Diagnostic Investigation of Class IV Problem | 22 | .28 | 98.97 |
| 13 | 24 | Diagnostic Investigation with Nuclear or Computerized Axial Tomgrpy Imaging | 21 | .27 | 99.24 |
| 14 | 2 | Annual Well Care Examination, Child Age 3-17 | 14 | .18 | 99.42 |
| 15 | 18 | Management of Chemotherapy and Radiotherapy Treatments | 14 | .18 | 99.60 |
| 16 | 12 | Annual Gynecological examination | 10 | .13 | 99.83 |
| 17 | 11 | Prenatal Revisits for Patients Age 19-34 | 8 | .01 | 99.83 |
| 18 | 5 | Medication Administration | 5 | .06 | 99.89 |
| 19 | 1 | Well Care Examination, Child Age 0-2 | 4 | .05 | 99.94 |
| 20 | 9 | Initial Prenatal Evaluation | 3 | .03 | 99.97 |
| 21 | 20 | Management of Class V Problems | 3 | .03 | 100.00 |
| 22 | 10 | Prenatal Revisits for Patients Over Age 34 and Under Age 19 | 0 | 0 | 100.00 |
| 23 | 21 | Audiological Testing | 0 | 0 | 100.00 |
| 24 | 23 | Speech and Rehabilitation Therapy | 0 | 0 | 100.00 |
| | | TOTAL | 7856 | 100.00 | 100.00 |

In order to examine the statistical effectiveness of the PAS grouper a series of four analysis of variance (ANOVAs) were conducted. The four analyses were: (1) The original 24 PACs using all visits (no PAS visits removed). (2) The original 24 PACs using all visits (PAS visits removed). (3) The PACs and PAS combined as a total ambulatory classification system. (4) The PAS as an ambulatory surgery classification system.

These analyses will allow an examination of (1) how the PAS visits initially affected the PAC grouper (comparison of analysis 1 and 2), (2) if the PAS increase the efficiency of the PAC group (comparison of 1 and 2 with 3), and how well the PAS grouper performs as an ambulatory surgery classification system.

Table 12 contains the results of the ANOVA on the PAC with the PAS and the PAC without the PAS utilizing the four cost formula as the dependent measure.

TABLE 12: Comparison of PAC With and Without PAS Visits (N = 514,413 & 7,856)

| COST FORMULA NUMBER | PAC WITH PAS VISITS (R-SQUARE) | PAC WITHOUT PAS VISITS (R-SQUARE) |
|-------------------------------------|--------------------------------------|---|
| 1 Complete Military Cost | 0.1430 | 0.1810 |
| 2 CHAMPUS Cost | 0.0728 | 0.0750 |
| 3 Labor Cost Only | 0.2976 | 0.2972 |
| 4 Reimbursable Military Supply Cost | 0.1350 | 0.1309 |

As noted in Table 12,37 in three of the four cost formulas

the PAC without the PAS visit has a higher R-Square value.

However, only cost formula one contains any measurable difference

(.380). In summary, there is no difference in the amount of

variance explained when the PAS visits are included or removed.

The next evaluation will compare the results of the PAC and PAS grouper combined with the previous results contained in Table 13. In order to conduct the most appropriate analyses, it was necessary to delete from consideration those groups containing less than 30 visits. This reduced the number of PAS groups from the original 28 non-empty groups to 16 groups with a sample size of 30 or more, 12 groups had an sample size of 29 or less.

TABLE 13. Comparison of PAC without PAS Visits also PAC and PAS Combined Visits

| COST FORMULA NUMBER | PAC WITHOUT PAS VISITS R-SQUARE) | PAC & PAS COMBINED (R-SQUARE) |
|--|--|-------------------------------------|
| 1 Complete Military Cost | 0.1810 | 0.2194 |
| 2 CHAMPUS Cost | 0.0750 | 0.0776 |
| 3 Labor Cost Only | 0.2976 | 0.2943 |
| 4 Reimbursable Military Supply Cost | 0.1309 | 0.1312 |

As was noted in the previous comparison in Table 12, the only difference of any magnitude was obtained using Cost1 and this resulted in only a slight (.384) difference. Thus, for the Army data there is an increase of 7.64% between the PAC with PAS

visits integrated and the PAC and PAS groupers operating in conjunction with one another.

The final analysis was designed to determine the amount of variance explained by the PAS acting independently and only on surgical visits. The results of this analysis is contained in Table 14.

TABLE 14: R-Square Values for the PAS Grouper

| DESCRIPTION OF COST FORMULAS | PAS R-SQUARE |
|-------------------------------------|--------------|
| 1 Complete Military Cost | 0.2670 |
| 2 CHAMPUS Cost | 0.1169 |
| 3 Labor Cost Only | 0.1053 |
| 4 Reimbursable Military Supply Cost | 0.1150 |

From the results of these analyses, the PAS group performs best (highest amount of variance accounted for) when using cost formula 1. The variance accounted for is slightly more than one-fourth. Overall the PAS either by itself or in concert with the PAC does provide some improvement in the amount of variance explained.

DISCUSSION

While this report is limited to the evaluation of the PAC and PAS classification systems using the Army Medical Department Data, a number of interesting and critical findings have been obtained from the results. First, attention should be drawn to the fact that at the present time these are the only two classification systems that are operational from a reimbursement perspective. Second, in terms of the development of the systems, the samples were drawn primarily from large outpatient facilities quite similar to the military system, where few free standing outpatient clinics exist. Third, it cannot be overemphasized that "if" the purpose of an ambulatory classification system for the military is the allocation of resources, the effectiveness of a classification system is directly related to the methodology used to attach a "cost" to each visit. (For an in depth discussion of the development of the costing methodology used in this study see Guillen, et al., 1992). Fourth, and most importantly, the PAC/PAS classification system does group all military visits from a clinical perspective. Fifth, a high probability exists that the PAC/PAS system does group all military visits from a clinical perspective. Finally, PAC/PAS system can be modified to increase not only the clinical meaningfulness of the system but its performance as a resource allocator as well.

CONCLUSIONS AND RECOMMENDATIONS

The results of this study provided a greater understanding of the PAC/PAS as an ambulatory classification system for the Army Medical Department. At this time it appears if the Department of Defense is to comply with the National Defense Authorization Act for FY87 (s.2638), 14 November 1986, Section 1101, which directed the Secretary of Defense to establish by regulation the use of outpatient DRGs as the primary criteria for allocation of resources for DOD Medical Treatment Facilities (MTFs) on 1 October 1993, much work needs to be accomplished. More specifically:

- The continued development of a cost methodology directly related to accounting for as many factors related to the providing of health care as possible.
- 2. A continued evaluation of the leading ambulatory care classification systems in terms of military applicability.
- 3. Since all the current ambulatory classification systems focus on physician services and utilize CPT as the primary procedural coding system it would be prudent for the military to initiate the development of a coding system that would integrate CPT as well as military unique codes.

APPENDIX A

AMBULATORY CARE DATA BASE (ACDB) Extended Procedure Codes with conversions to CPT-4

| EXTCD | CPT-4 | DESCRIPTION |
|-------|-------|---|
| 00099 | 01800 | Anesthesia (Intravenous/Local Regional) |
| 02000 | 99155 | Health Ed/Counsel, Health Promotion |
| 02001 | 99155 | Health Ed/Counsel, Hearing Convservation |
| 02002 | 99155 | Health Ed/Counsel, OH Program Orientation |
| 02003 | 99155 | Health Ed/Counsel, Radiation Protection |
| 02004 | 99155 | Health Ed/Counsel, Respirationy Protection |
| 02005 | 99155 | Health Ed/Counsel, Supervisor Orientation |
| 02006 | 99155 | Health Ed/Counsel, Toxic Hazard |
| 02007 | 99155 | Health Ed/Counsel, Vision Protection |
| 02008 | 92551 | Hearing Conservation, Reference Audiogram |
| 02009 | 92551 | Hearing Conservation, 90-Day Audiogram |
| 02010 | 92551 | Hearing Conservation, Follow-up 15 Hours |
| 02011 | 92551 | Hearing conservation, Follow-up 40 Hours |
| 02012 | 92551 | Hearing Conservation, Non-Job Related Audiogram |
| 02013 | 92551 | Hearing Conservation, Termination Audiogram |
| 02014 | 90030 | Hearing Conservation, Otoscopic Check |
| 02015 | 92551 | Hearing Conservation, Periodic Audiogram |
| 02016 | 90010 | Radiation Protection Program |
| 02017 | 90010 | Respiratory Protection Program |
| 02018 | 90010 | Injury, Medical Treatment |
| 02019 | 90000 | Injury, First Aid |
| 02069 | 90030 | Spectacle Procedure, New Order |
| 02070 | 90030 | Spectacle Procedure, Reorder |
| 02071 | 92370 | Spectacle Procedure, Repair/Adjustment/Dispensing |
| 02072 | 92390 | Type Spectacles Ordered, Aircrew |
| 02073 | 92390 | Type Spectacles Ordered, Safety |
| 02074 | 92390 | Type Spectacles Ordered, GM Inserts |
| 02075 | 92390 | Type Spectacles ordered, Tinted Lenses |
| 02078 | 92391 | Type Contact Lenses, Soft Lenses |
| 02079 | 92391 | Type Contact Lenses, EW |
| 02080 | 92391 | Type Contact Lenses, Hard Lenses |
| 02081 | 92391 | Type Contact Lenses, Gas Perm |
| 02082 | 92391 | Type Contact Lenses, Toric |
| 02083 | 92391 | Type Contact Lenses, Other |
| 02105 | 90887 | Collateral Contact |
| 02400 | 90841 | Therapy/Counseling, Individual, Social Work |
| 02401 | 90847 | Therapy, Marital/Couple, Social Work |
| 02402 | 90847 | Therapy, Family, Social Work |
| 02403 | 90853 | Therapy/Counseling, Group, Social Work |
| 02404 | 90801 | Interview, Evaluation |
| 02407 | 90150 | Visit, Home |
| 02409 | 90899 | Other I, SW |
| 02410 | 90899 | Other II, SW |
| 02411 | 90899 | Other III, SW |
| 02420 | 90887 | Collateral, Family Member (SW) |
| 02421 | 90887 | Collateral, Physician (SW) |
| 02422 | 90887 | Collateral, Nursing (SW) |
| 02423 | 90887 | Collateral, PAD (SW) |
| 02424 | 90887 | Collateral, VA (SW) |
| 02425 | 90887 | Collateral, JAG (SW) |
| 02426 | 90887 | Collateral, Civilian Agency (SW) |
| 02427 | 90887 | Collateral, Other Mil Med Facil (SW) |
| 02428 | 90887 | Collateral, ADAPCP (SW) |

```
EXTCD
         CPT-4
                    DESCRIPTION
         90887
                    Collateral, School (SW)
02429
02430
         90887
                    Collateral, Unit (SW)
                   Collateral, Court Appearance (SW)
Collateral, Other I (SW)
Collateral, Other II (SW)
Collateral, Other III (SW)
          90887
02431
02432
          90887
02433
          90887
02434
          90887
02435
          90899
                    Investigative Process-FAP
02436
          90847
                    Intervention w/One Family Member Of Identified Patient
02437
          90847
                    Intervention w/Two Family Members of Identified PNT
02438
          90847
                    Intervention w/Three Family Members of Identified PNT
          90847
02439
                    Intervention w/Four Family Members of Identified PNT
02440
          90887
                    Collateral, ACS (SW)
                    Collateral, Law Enforcement (SW)
          90887
02441
02442
          90887
                    Collateral, Child Care Facility (SW)
02500
          90841
                    Advice/Health Instruction
02502
          90801
                    Assessment, Behavioral
02505
          90841
                    Crisis Intervention
02506
          90889
                    Diagnostic Formulation
02507
          90889
                    Eval, Report Composite
02508
          99199
                    Health Promotion
02509
          90801
                    Interview, Psychology
02510
          90887
                    Coordination, Medical
02511
          90605
                    Consultation, Patient
02512
          90830
                    Testing, Administration
                    Testing, Scoring
Testing, Interpretation
Therapy, Individual, Psychology
02513
          90830
02514
          90830
02515
          90841
02516
          90847
                    Therapy, Couple/Family, Psychology
02517
          90853
                    Therapy, Group, Psychology
02519
          90830
                    Exam Eval, ARMA
                    Exam Eval, Behavioral Medicine
02520
          90841
          99080
02521
                    Exam Eval, Clearance Admin
          99080
02522
                    Exam Eval, Clearance Entry
02523
          90801
                    Exam Eval, Clearance PRP
02524
          90801
                    Exam Eval, Clearance Security
02526
          90889
                    Disability Determination
02527
          90825
                    Eval, Disability Rehabilitation
02528
          90889
                    Eval, Educational
02529
          90847
                    Eval, Family/Marital
02530
          90889
                    Eval, Forensic
          90825
02531
                    Eval, Functional Symptoms
02532
          90801
                    History
02533
          90889
                    Eval, Mental Status
02534
          90841
                    Eval, Pre/Post Surgical
          90630
02536
                    Treatment Recommendation/Outcome
02537
          90600
                    Triage, Psychology
03000
          90000
                    Screening Nutrition Assessment
03001
          90000
                    Anthropometric Measurements
03002
          90020
                    Comprehensive Nutrition Assessment
          90000
                    Skin Fold Caliper (AWCP)
03003
03004
          90050
                    Reassessment, Nutrition Status
                    Nutrition Follow-Up Evaluation
03006
          90040
03009
          90020
                    Nutrition Evaluation, Other
03010
          90292
                    Discharge Planning
03011
          90600
                    Nutrition History Consultation
03012
          90010
                    Nonstandard Diet Calculation
03014
          90000
                    Nutrient Intake Analysis-Limited
                    Patient Related Team Conference
03016
          99156
          90699
03019
                    Nutrition Procedure, Other
03020
          99078
                    NUTR Care Ed, Nutrition Thru Life Span
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EXTCD
         CPT-4
                   DESCRIPTION
03021
         99156
                   NUTR Care Ed, MOD-Consistency
03022
         99078
                   NUTR Care Ed, MOD-Overweight
03023
         99078
                   NUTR Care Ed, MOD-Diabetes/Reactive HYP
03024
         99156
                   NUTR Care Ed, MOD-Disease of GI Tract
03025
         99078
                   NUTR Care Ed, MOD-Hyperlipidemia/Hyperlipoproteinemia
03026
         99156
                   NUTR Care Ed, MOD-Sodium
03027
         99156
                   NUTR Care Ed, MOD-Protein
03028
         99156
                   NUTR Care Ed, MOD-Renal
03029
         99156
                   NUTR Care Ed, MOD-Diagnostic Procedures
03030
         99156
                   NUTR Care Ed, MOD-PEDS/Adolescent Diseases
03031
         99156
                   NUTR Care Ed, MOD-Vegetarianism
03032
         99078
                   NUTR Care Ed, MOD-Physiological Stress
03033
         99156
                   NUTR Care Ed, MOD-Underweight
         99078
03034
                   NUTR Care Ed, MOD-Athletic Training
                   NUTR Care Ed, MOD-Other Mineral
03035
         99156
03036
         99156
                   NUTR Care Ed, MOD-Allergy
         99078
03037
                   NUTR Care Ed, MOD-Overweight (AWCP)
03038
         90215
                   Eval, Parenteral/Enteral Nutrition
03039
         99156
                   NUTR Care Ed, Other
03040
         99078
                   NUTR Care Ed, Fitness/Wellness
03049
         99156
                   Counseling, Nutrition (CHN)
04000
         97700
                   Eval, Self ADL
04001
         97700
                   Eval, Self Care
04002
         97700
                   Eval, Home/Work/School
         97700
04003
                   Eval, Play/Leisure Ability
04004
         95882
                   Eval, Social/Comm Skills
04005
         95882
                   Eval, Psychological Skills
04006
         95882
                   Eval, Cognitive Function
04011
         95851
                   Eval, Range of Motion, Neuromuscular Status
04012
         97720
                   Eval, Dexterity
04013
         93890
                   Eval, Vascular Status
04014
         97720
                   Eval, Strength
04015
         97720
                   Eval, Codrdination, Neuromuscular
                   Eval, Endurance, Neuromuscular
04016
         97720
04017
         90030
                   Eval, Sensation, Neuromuscular
04018
         97720
                   Eval, Tone, Movement & Control
04019
         97720
                   Eval, Integration of Reflexes
04020
         97720
                   Eval, Sensory Motor Development/Reflexes
04021
         97720
                   Eval, Musculoskeletal Screening
04022
         95831
                   MSE, Cervical
04023
         95831
                   MSE, Thoracic
04024
         95831
                   MSE, LS
04025
         95831
                   MSE, Shoulder
04026
         95831
                   MSE, Elbow
04027
         95832
                   MSE, Wrist/Hand
04028
         95831
                   MSE, Hip
04029
         95831
                   MSE, Knee
04030
         95831
                   MSE, Ankle
04031
         95831
                   MSE, Foot
94032
         95831
                   MSE, Prox UE
04033
         95832
                   MSE, Distal UE
04034
         95831
                   MSE, Prox LE
04035
         95831
                   MSE, Distal LE
04050
         97799
                   Eval, Other, OT
04051
         95882
                   Eval, Perceptual Status
04052
         90774
                   Eval, Developmental Status
04053
         97700
                   Prosthetic Checkout
04061
         97540
                   Self Care, ADL/OCC PERF
04062
                   Pre-Voc Assessment Training, ADL/OCC PERF
         97540
04063
         97540
                   Home/Work/School Skill, ADL/OCC PERF
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EXTCD
         CPT-4
                  DESCRIPTION
04064
         97540
                  Play/Leisure Ability, ADL/OCC PERF
04071
         97540
                  Awareness Of Self, SOC Commo Skills
                  Coping Behavior/Adaptation, SOC Commo Skills
04072
         97540
04073
         97540
                  Listening Skills, SOC Commo Skills
04074
         97540
                  Resumption of Roles, SOC Commo Skills
04075
         97540
                  Self Control, SOC Commo Skills
                  Self Esteem, SOC Commo Skills
04076
         97540
04077
         97540
                   Self Expression, SOC Commo Skills
                   Self Identity, SOC Commo Skills
04078
         97540
                   Sensitivity To Others
04079
         97540
04081
         97540
                   Orientation, COG Func
                   Sequencing, COG Func
04082
         97540
04083
         97540
                   Comprehension, COG Func
04084
         97540
                   Conceptualization, COG Func
04085
         97540
                   Visual Motor Perception Training, COG Func
04086
         97540
                   Problem Solving Ability, COG Func
04087
         97540
                   Visual/Auditory Memory, COG Func
04091
         97530
                   Dexterity, Phys Func
04092
         97530
                   Gross/Fine Motor Coordination, Phys Func
04093
         90040
                   Edema Control, Phys Func
04094
         97530
                   Range of Motion, Phys Func
04095
         97530
                   Strength, Phys Func
04096
         97530
                   Endurance, Phys Func
04097
         97112
                   Sensation, Phys Func
04098
         97112
                   Integrate Approp Reflexes, Phys Func
04099
         97112
                   Develop Normal Tone, Movement, Control, Phys Func
04100
         97114
                   Promote Adaptive Responses, Phys Func
04101
         97112
                   Joint Protection Techniques, Phys Func
         97500
04102
                   Orthotic Fabrication/Training, Phys Func
04103
         97520
                   Prosthetic Training, Phys Func
         97112
04104
                   Pain Reduction, Phys Func
04105
         97112
                   Sensorimotor Development, Phys Func
04121
         97540
                   Work Simplification/Energy Conservation
04122
         97530
                   Infant Stimulation
04123
         97540
                   Burn Protocol
04125
         99078
                   Stress Management
04126
         97540
                   Therapy, Work
04127
         90040
                   Wound Management
                   Therapy, Group, (OT)
04128
         99078
04129
         97530
                   Physical Training/Reconditioning
04130
         97799
                   Other Procedure (OT)
                   Ed/Consult, SIG Other
04131
         99155
04132
         90040
                   Re-evaluation (OT)
04133
         99155
                   Oral-Motor Facilitation
                   CO-Therapy Teaching, SIG Other (PEDS Only)
04135
         99155
         99155
04136
                   Compensatory & Org Work Study Skills
04138
         99155
                   Cardiac Risk Factor Instructions
06000
         90010
                   Eval, Gen Burns
06001
         90000
                   Eval, Sports Med
06002
         90050
                   Eval, Amputee
06003
         90040
                   Eval, Hand
06004
         90010
                   Scoliosis Clinic/Screening
06005
         97700
                   Gait/Running Analysis
06006
         97700
                   Eval, Assistive Device
06011
         97010
                   ICE
06013
         97118
                   Medcolator
06014
         97128
                   Medcosonolator
06015
         97012
                   Traction
06017
         97014
                   Tens
06018
         97018
                   Paraffin Bath
```

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EXTCD
         CPT-4
                   DESCRIPTION
         97022
06019
                   Whirlpool
06021
         97124
                   Massage
06022
         97126
                   Contrast Bath
06023
         97110
                   Therapeutic Exercise
06024
         97112
                   Neuromuscular Re-education
06025
         97114
                   Functional Activities Training
                   Gait Training
06026
         97116
06027
         97260
                   Therapy, Manual
06028
         97016
                   Jobst Pump
         97110
06029
                   Tilt Table
06030
         90060
                   Burn Care
06031
         97139
                   Fluidtherapy
                   Rehabilitation, Cardiac
06032
         90050
06033
         97500
                   Splint Fabrication
06034
         99155
                   Patient Education (PT)
06035
         97240
                   Therapy, Pool
06037
                   Pre Op Excercise Trng, Mastectomy
         97110
06038
         97110
                   Pre Op Excercise Trng, Chest
06039
         97110
                   Pre Op Excercise Trng, Knee
06040
         97110
                   Pre Op Excercise Trng, Hip
         97110
06041
                   Pre Op Excercise Trng, Foot and Ankle
06042
         97110
                   Pre Op Excercise Trng, Shoulder
06043
          97110
                   Pre Op Excercise Trng, Other
06044
          97110
                   Pre and Post Partum Exercise Trng.
06045
          97118
                   Facilitation/Inhibition techs
06046
          94667
                   Postural Drainage/Chest
06047
          97139
                   Other Procedure (PT)
06048
          97012
                   Traction and Hot pack (PT)
06049
          97014
                   Tens and Hot Pack (PT)
06050
          97128
                   Ice and Ultrasound (PT)
06051
          97110
                   Ice and Exercise (PT)
06052
          99078
                   Back Class (PT)
          99078
06054
                   Ankle Class (PT)
06057
          99078
                   Diabetic Class (PT)
                   Hot Pack and Ultrasound (PT)
06058
          97128
                   Medcolator and Ice (PT)
06059
          97118
06060
          97118
                   Medcolator and Hot pack (PT)
06061
          97010
                   Ice and Elevation (PT)
                   Tens and Ice (PT)
06062
          97014
                   Post Op Knee Rehab (PT)
06063
          97530
06064
          97530
                   Post Op Mastectomy Rehab (PT)
06065
          97530
                   Post Op General Rehab (PT)
                   Ultrasound, Ice and Exercise (PT)
06066
          97118
06067
          97128
                   Ultrasound, Hot Pack & Exercise (PT)
                   Ultrasnd, Hot Pack & Inter Cerv Trac (PT)
06068
          97128
                   Jobst, Ice & Elevation (PT)
06070
          97016
06071
          97128
                   Ice & Medcosonolator (PT)
06072
          97124
                   Ice & Manual Therapy (PT)
                   Ice, Ultrasound & Manual Therapy (PT)
06073
          97128
                   Ice, Medcosonolator & Manual Therapy (PT)
          97128
06074
                   Hot Pack & Manual Therapy (PT)
06075
          97124
                   Hot Pack, Medcosonolator & Man Ther (PT)
06076
          97128
          97128
06077
                   Hot Pack & Medcosonolator (PT)
06078
          97022
                   Whirl Pool, Burn/Wound Care (PT)
06080
          97520
                   Exercise & Gait/Prosthetic Trng (PT)
06081
          97118
                   High Voltage Stimulation (PT)
06082
          97118
                   Electrical Stimulation & Exercise (PT)
07000
          87210
                   Exam Microscopic (Arthropod)
07001
          83052
                   Screening, Sickle Cell
07002
          86171
                   Screening, Rubella
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EXTCD
         CPT-4
                   DESCRIPTION
07003
         90753
                   Exam, Physical, (CHN)
07004
         90774
                   Developmental Services
07005
         90115
                   Evaluation, Home
07006
         90000
                   Assessment, Health Needs
07007
         90060
                   Wic Program
07008
         90060
                   Complex Patient Coordination
07009
         90160
                   Ostomy Care
07010
         99155
                   Counseling, Breast Feeding
07011
         99078
                   Counseling, Health Fitness
07012
         97540
                   Counseling, ADL
         99155
07013
                   Counseling, Post Partum
07014
         99078
                   Counseling, Prenatal
07015
          99155
                   Counseling, Newborn
07016
          99155
                   Counseling, Premature Infant
07017
         99155
                   Counseling, Family Planning
07018
         99155
                   Counseling, Disease Specific
07019
         99078
                   Counseling, Infectious Disease Prevention
07020
                   Counseling, Foreign Travel
         99155
                   Pre-School Services
07021
         90752
07030
         99078
                   Clinic, Smoking
07035
         99078
                   Clinic, STD
                   Clinic, Well Child
07040
         99078
                   Clinic, Well Baby
07050
          99078
07055
          99078
                   Clinic, TB
07060
         90760
                   INH Monitoring
07070
         99155
                   Interview, STD Contact
07091
                   interview, Comm Dis Case
         99155
07092
          99155
                   Interview, Comm Dis Contact
07093
          99155
                   Interview, EPI Other
10004
          10000
                   I & D, Cyst
10062
          26011
                   I & D, Felon
10165
          10660
                   Blister Care, Puncture, Debride, Disinfect, &
                     Obervation
10181
          10180
                   I & D, Wound
11005
          11040
                   Debridement, Ulcer/Abscess
11044
          11042
                   Debridement, Skin, Subcutaneous Tissue
11102
          11100
                    Biopsy, Punch
11103
          11000
                   Biopsy, Shave
          11100
11104
                   Biopsy, Incisional
11205
          11200
                   Excision, Lipoma
11407
          11406
                   Scar Excision/Revision
11410
          11401
                   Excision, Cyst
11411
          11401
                   Excision, Lesion, Benign, Trunk/Extremity < 1.0 CM
11412
          11403
                   Excision, Lesion, Benign, Trunk/Extremity > 2.0 CM
11429
          11406
                   Excision, Neoplasm, Large
                   Excision, Lesion, Scalp, Neck, Hands < 1.0 CM
11431
          11421
                   Excision, Lesion, Scalp, Neck, Hands > 2.0 CM
Excision, Lesion, Face, Lids, Ears, Nose < 1.0 CM
Excision, Lesion, Face, Lids, Ears, Nose > 2.0 CM
11432
          11423
11447
          11441
          11443
11448
11449
          11443
                   Excision, Lesion, Benign, NOS (ENT)
11611
          11601
                   Excision, Lesion, Malignant, Trunk/Extremity < 1.0 CM
11612
          11603
                   Excision, Lesion, Malignant, Trunk/Extremity > 2.0 CM
                   Excision, Lesion, Malignant, Scalp, Neck, Hands < 1.0C
11631
          11621
11632
          11623
                   Excision, Lesion, Malignant, Scalp, Neck, Hands > 2.0C
11651
          11641
                   Excision, Lesion, Mal, Face, Lids, Ears, Nose < 1.0 CM
11751
          11740
                   Biopsy, Nail
11752
          11750
                   Excision, Nail, Medial Border
11753
          11750
                   Excision, Nail, Lateral Border
11902
          11900
                    Injec, Intralesional, Corticosteroid
11903
          11900
                    Injec, Intralesional, Antimetabolite
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EXTCD
         CPT-4
                   DESCRIPTION
11998
         77261
                   Grenz/Sup X-ray
12003
         12001
                   Wound Repair & Simple DRSG
12008
         12002
                   Wound Care, Local
12009
         12011
                   Suture, Ear
12010
         12011
                   Repair, Laceration, Eyelid
13149
         13150
                   Repair, Laceration, Full Thickness
13164
         13160
                   Secondary Closure, (DPC), Surgical Wound
13165
         12020
                   Secondary Closure, Nonsurgical Wound
15040
         15100
                   Graft, Skin
15777
         15240
                   Autografts (Not Hair)
15786
         15782
                   Dermabrasion, Tattoo
15792
         15791
                   Acid Treatment
15793
         15791
                   Chemical Peel
15827
         15839
                   Scalp Reduction
15830
         15240
                   Restoration, Eyebrow
                   Destruction Of Warts W/Canthrone
17111
         17110
17112
         17110
                   Destruction Of Warts W/Podophyllum
17203
         11641
                   Electrosurgery, Basal Cell Excision
                   Electrocoagulation/Destruction
17210
         17200
17308
         17307
                   Chemosurgery, Stage V
17381
         11401
                   Laser Therapy, Excision
                   Laser Therapy, Vascular
         17100
17382
                   Laser Therapy, Verruca
17383
         17110
17385
         17000
                   Laser Therapy, Other
         19120
19121
                   Excision, Cyst, Breast, Fibroadenoma (Other Benign)
19122
         19120
                   Excision, Cyst, Breast, Benign
19369
         19371
                   Mammary Capsulotomy (Closed)
20221
         20225
                   Biopsy, Leg Thru Tibia & Fibula
20551
         90782
                   Injec, Soft Tissue
20555
         97118
                   Trigger Point Stimulation
20601
         20610
                   Aspiration, Joint (Arthocentesis)
20602
         20610
                   Injec, Intra-Articular
20664
         20665
                   Halo Adjustment
20685
         20650
                   Other Orthosis Application/Adjustment
27195
         97260
                   Manipulation, Pelvis
27197
         97260
                   Manipulation, Spine
27199
         97260
                   Manipulation, Not Spine/Pelvis
28301
         28119
                   Retrocalcaneal Exostosectomy
         28300
28303
                   Osteotomy
         28455
                   TTT, FX, Tarsal, Closed TTT, FX, Toe
28450
28517
         28515
          27762
28650
                   Fracture Manipulation and Immobilization, NOS
          29799
29001
                   Cast Application
          29799
29100
                   Splint Application
29456
         29450
                   Cast Application, Post Amputation
29501
         99070
                   Post Op Shoe
29502
         29515
                   Posterior Splint, Foot & Ankle
29503
         29515
                   Slipper Cast
29790
         90040
                   Plaster Foot Impression
29800
         29425
                   Cast, Removal/Repair, Reapplication
29801
         29425
                   Cast, Primary Application
29802
         29425
                   Cast, Secondary or Tertiary Application
30010
         89100
                   Levin Tube
30121
         30120
                   Electrosurgery, Rhinophyma Malignant
30940
         92511
                   Antroscopy, Nasal
31501
          31500
                   Endotracheal Intubation, Nasal
                   Laryngoscopy, Direct, Operative W/Laser
31545
         31540
                   Bronchoscopy Diag W/Bronchoalveolar Lavage
31654
          31659
31658
          31659
                   Bronchoscopy Diag W/Needle Asp,
                     Carinal/Paratracheal NOD
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| EXTCD | CPT-4 | DESCRIPTION |
|----------------|----------------|---|
| 32001 | 32000 | Thoracentesis, Therapeutic W/Drainage |
| 36432 | 36430 | Transfusion, RBC |
| 36433 | 36430 | Transfusion, Immunoglobulin |
| 36434 | 36430 | Transfusion, Platelets |
| 36435 36436 | 36430 | Transfusion, Factor Replacement |
| | | Transfusion, Blood, Pediatrics |
| 36481 | 36480 | Catheter Placement, Subclavian |
| 36801 | 36800 | Vascular Access placement, Chronic Pediatric Hemodialysi |
| 42822 | 42821 | Tonsillectomy & Adenoidectomy (T&A) |
| 42832 43261 | 42831 43260 | Adenoidectomy, Primary Duodenoscopy W/Contrast Injec, Both Pancreatic, |
| 43265 | 43060 | Bile Duct |
| 43265 | 43268 | Duodenoscopy W/Cannulation of Ampulla of Vater |
| 43452 | 43450 | Esophageal Dilation W/Mercury Weighted Bougie(S) |
| 45373 | 45370 | Colonoscopy, Beyond 25CM, Below Splen Flex W/Polypectomy |
| 45387 | 4585 | Colonoscopy, Beyond Splenic Flexure W/Polypectomy, Multip |
| 45989 | 90030 | Exam, Digital Of Rectum |
| 49304 | 49301 | Laparoscopy W/Liver Biopsy |
| 50701 | 50951 | Ureteral Dilatation |
| 51721 | 51700 | DMSO Bladder Installations |
| 51794 | 52000 | Cystoscopy |
| 52004 | | Cystourethroscopy, Ureteral Catheterization (Unilat) |
| 53680 | 53670 | Foley Catheter Care |
| 54500 | 54505 | Biopsy, Testis (Open) |
| 58340 | | Hysterosalpingogram |
| 58993 | 89300 | Post Coital Test |
| 59001 | 59000 | Amniocentesis, Genetic |
| 59002 | 59000 | Amniocentesis, Pulmonary Maturity |
| 59040 | 59420 | External Cephalic Version |
| 59423 59450 | 80055 | Antepartum Testing, Biophysical Profile |
| 62275 | 59420 62279 | Labor Check |
| 62273 | 62280 | Differential Epidural Phenol Block |
| 62283 | | Neurolytic Lumbar Sympathetic |
| 64444 | 64442 | Injec, Lumbar Facet |
| 64451 | 64450 | Post Tib Nerve Block |
| 64452 | 64450 64450 | Ankle Nerve Block |
| 64453 | 64450 | Wrist Nerve Block |
| 64454 | 64450 | Digital Nerve Block |
| 64460 | 64680 | Neurolytic Celiac |
| 64461 | 64640 | Peripheral Neurolytic |
| 64485 | 62278 | Epidural Catheter Placement |
| 64512 | 64450 | Sympathetic Bier Block |
| 65223 | 65222 | Corneal Stain |
| 65224 | 65205 | Foreign Body Removal (Eye) |
| 65780 | 90030 | Keratometry |
| 66683 | 66720 | Ciliary Body Cryotherapy |
| 66763 | 66762 | Photocoagulation, Anterior Segment |
| 67105 | 67226 | Photocoagulation, Retina |
| 67851 | 67850 | Destruction, Lid Lesion |
| 68111 | 68135 | Removal Of Lesion Of Conjunctiva |
| 69212 | 69210 | Irrigation, Ear |
| 69600 | 13152 | Revision, Previous Surgery, Ear |
| 71031 | 90030 | Interpretation, Chest-X-Ray (2 Views) |
| 71251 | 90040 | Interpretation Of Chest CT |
| 74416 | 74415 | Flat Tomogram, Kidney, Plain |
| 74427 | 74426 | Antegrade Urethrogram |
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EXTCD
         CPT-4
                   DESCRIPTION
         74426
74428
                   Antegrade Nephrostogram
74453
         74451
                   Retrograde Urethrogram
74482
         74000
                   Kub
76105
         76100
                   Interpretain, Tomography, Sing, Plane, Body,
                    Section, Not Kid
76516
         76511
                   Ultrasonography, A-Scan
         76512
76517
                   Ultrasonography, B-Scan
78405
         78499
                   Muga, Interpretation Only
78589
         90040
                   Interpretation, Ventilation/Perfusion Scan
78598
         90040
                   Interpretation, Gallium Scans
81001
         81002
                   Urinalysis (Dip Stick)
82999
         82996
                   Gonadotropin Reduction Test
84998
         82383
                   Clonidine Suppression Test
         95030
                   Prescipitin Determination
86402
                   Anergy, Screen Result, Reading
86456
         86455
86581
                   TB Test, Tine (Admin)
         86585
         90030
                   TB Test (Read)
86582
                   Culture, Cervix
87073
         87070
87074
         87070
                   Culture, Urethra
87204
         87205
                   Vaginal Smear
87215
         87210
                   Wet Mount (For OVA, Parasites, Bacteria Fungi) and KOH
87989
         87207
                   Tzanck Stain
89101
         89105
                   Duodenal Entubation & Aspiration, Secretin Test
                   Nasal Cytology
89191
         88161
89321
         87070
                   Expressed Prostatic Secretion
90002
         90030
                   Suture Removal
90006
         90050
                   Exam, Complaint Specific F/U
90007
         90000
                   ACE Bandage Application
90008
         90015
                   Evaluation, Initial
90009
         90010
                   Exam, Complaint Specific Med.
90011
         90040
                   Dressing Change
90012
         90017
                   History/Exam Initial OB
90013
         90000
                   Exam, Breast
90014
         92551
                   Screening Hearing
90016
         90010
                   Exam, Eye, Limited
90018
         90015
                   Observation & Examination
                   Exam, Return To Work
90019
         90040
90021
         99155
                   Diabetic Teaching (Extended Services)
90024
         90015
                   Exam, General Medical
                   Exam, Pelvic/Pap Smear
90025
         90015
          90010
                   Exam, Physical, Partial, OB-GYN
90026
90027
          90017
                   Exam, Physical, Complete, OB-GYN
                   Exam, Physical MED
90028
          90015
90029
          90000
                   Exam, Screening Medical
90031
         90030
                   Medications Adjustment
90032
         90010
                   Exam, Pelvic
90033
         90000
                   History, No Exam
          90010
90034
                   Exam, General Medical, Partial
90042
          92557
                   Exam, Hearing
         90010
90043
                   Exam, Vision
90055
          90060
                   Follow-up Evaluation
90061
          90000
                   Diabetic Routine Foot Care
          90750
90081
                   Exam, Flight 1/1A
                   Exam, Flight, Class 2 and 3 Type B
90083
          90750
90084
         90760
                   Exam, Flight, Interim, Class 2 and 3/FAA 3
90085
          90750
                   Exam, Physical, Military (Incl Retirement)
90201
         92002
                   Low Vision, Evaluation
                   Low Vision, Follow Up, Evaluation
90202
         92012
                   Low Vision, Consulation/Dispensing
90203
          92392
90601
          99014
                   Telephone Consult (Documented)
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EXTCD
         CPT-4
                   DESCRIPTION
90635
         90010
                   Eval, Pretreatment, Patient
90650
         90600
                   Consultation, Limited
         90630
                   Consultation, Extensive
90652
90655
         90605
                   Consultation, Derm Path
90698
         90799
                   Injec, Other (IM/IV)
90700
         99080
                   Shot Record Review
90710
         90724
                   IMM, Small Pox
90711
         90724
                   IMM, Hemophilus Influenza B
90720
         90749
                   Immunizations
90721
         90724
                   IMM, Smallpox
90722
         90799
                   Unlisted Therapeutic Injection
90723
         90724
                   IMM, Adenovirus
90743
         90742
                   Immune Serum Globulin (ISG), HEP B
90744
         90742
                   Immune Serum Globulin (ISG), HEP Human Rabies
90745
         90782
                   Injection/Observation
9076
         90742
                   Immune Serum Globulin (ISG), HEP Tetanus
90747
         90742
                   Immune Serum Globulin (IS), HEP Varicella Zoster
         90020
90765
                   EFMP Assessment
90766
         90015
                   EFMP Evaluation
90767
         90060
                   EFMP Therapy
90768
         99080
                   EFMP Coding
                   Admin of HCG-Testosterone
90769
         90782
90770
         36000
                   IV Admin, Diagnostic Materials
90771
         62288
                   Injec, Intrathecal Steroid
90772
         90782
                   Injec, Celestone
90780
         90782
                   Injec, Anes & Steroid
                   Injec, Intramuscular, Corticosteroid
90783
         90782
90785
         90782
                   Injec, Desferal
         90784
90786
                   Injec, Imferon
         90784
                   Injec, Morphine
90787
90789
         90782
                   Injec, Aristocort
         96500
                   Chemotherapy
90790
                   Injec, Depo-Testosterone (100MG)
90791
         90782
90792
          90782
                   Injec, Delatestryl
90793
          90782
                   Injec, Kenalog
90794
          90782
                   Injec, Marcaine
90795
          90782
                   Injec, Vitamin B12
90796
          90782
                   Injec, Xylocaine
                   Injec, Amphotericin
90797
          90784
90802
          90825
                   Eval, Admin, Psychiatric
                   Therapy, Marital/Couple, Psychiatric
90848
          90847
90849
          90853
                   Therapy, Group, Psychiatric
90931
          90050
                   Medications Adjustment
                   Hemodialysis, Chronic, Pediatric, Uncomplicated Hemodialysis, Chronic, Pediatric, Complicated
90960
          90957
90961
          90957
                   Hemodialysis, Chronic, Uncomplicated
90962
          90955
90963
          90955
                   Hemodialysis, Chronic, Complicated
90966
          49080
                   Peritoneal Lavage
90970
          90982
                   Peritoneal Dialysis, Chronic, Intermittant,
                     Complicated
90971
          90982
                   Peritoneal Dialysis, Chronic, Intermittant,
                     Uncomplicated
90972
          90984
                   Peritoneal Dialysis, Chronic, Pediatric, Complicated
                   Peritoneal Dialysis, Chronic, Pediatric, Uncomplicated
          90984
90973
90974
          90994
                   Peritoneal Dialysis, Continuous, Ambulatory
          90994
90975
                   Peritoneal Dialysis, Continuous, Cycling
90995
          90990
                   Technique Evaluation, Dialysis
91012
          91010
                   Esophageal Motility Study
91053
          91052
                   Gastric Analysis W/Sham Feeding
          92002
92001
                   Exam, Eye, Triage
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EXTCD
         CPT-4
                  DESCRIPTION
         90010
92003
                  Exam, Visual Acuity
92005
         90000
                  Irrigation, Eye
92061
         92280
                  Potential Acuity Meter
92066
         92065
                   Binocular Vision Training, Follow-up
92067
                   Binocular Vision Training, Session
         92065
92085
         92083
                   Perimetry, Automated
92086
         92081
                   Perimetry, Tangent Screen
92227
         92225
                  Biomicroscopy (Slit Lamp)
92231
         92225
                  Opthalmoscopy, Indirect
                  Evaluation, Laser (Occupational Vision)
92276
         92002
         92002
92277
                  Evaluation, Microwave (Occupational Vision)
92278
         92002
                   Evaluation, Depth Perception
92281
         92002
                  Exam Safety Spectacle (Occupational Vision)
92282
         92002
                   Contrast Sensitivity
92283
         92002
                   Color Vision Examination
92289
         92004
                   Exam, Optometry Flight Class I
92290
         92004
                   Exam, Optometry Flight Class II
92291
         92004
                   Exam, Optometry Flight Class III
92292
         92004
                   Exam, Optometry Flight Class ATC/WO
92319
         92310
                   Contact Lens, Hard/Gas Permeable (Eval, Fit,
                      or Dispense)
92320
         92310
                   Contact Lens, Mandatory (Eval, Fit or Dispense)
92343
         92340
                   Eval, Eyeware
92375
         92341
                   Spectacle Procedure (Fit, Order, Adjust)
92380
         92340
                   Vision Conservation, Issue Plano
92489
         92391
                   Contact Lens, Verification
92491
         90030
                   Lensometry
92492
         92310
                   Contact Lens, Evaluation For
92493
         92310
                   Contact Lens, Follow-up
92494
                   Contact Lens, Fitting
         92310
92495
         92310
                   Contact Lens, Refitting
92496
         92391
                   Contact Lens, Dispensing
92497
         92002
                   Refraction, Manual
92498
         92002
                   Refraction, Automated
92505
         92506
                   Eval, Medical, Speech, Language or Hearing (Child)
                   Individual Speech Therapy (Child)
92509
         92507
         92508
92510
                   Group Therapy, Speech (Child)
92513
         92511
                   Rhinoscopy
92548
         92543
                   Eval, Otoneurological, For Vertigo
                   Audiology Test Battery/Immittance Test Battery
92558
         92557
92593
         92591
                   Consulatation, Hearing Aid (Binaural)
92597
         92557
                   Hearing Evaluation Pediatric
92598
         92590
                   Earmold
92601
         99070
                   Speech Communication Device Provided
92602
         92590
                   Hearing Aid Issue
92603
         92590
                   Hearing Aid Orientation
92604
         92592
                   Hearing Aid Repair
92605
         92507
                   Aural Rehabilitation
92606
         99070
                   Speech Materials Provided
92607
         92556
                   Word Recognition Scores
                   Supra Threshold Adapation Test
92608
         92589
92609
         92589
                   Performance Intensity Function
92610
         99155
                   Counseling, Hearing Conservation
92611
         99155
                   Counseling, Speech
                   Hearing, Issue/Fit Protection Device
92612
         90030
92613
         92592
                   Calibration, Hearing Aid
93012
         93014
                   Rhythm Strip Analysis
93016
         93015
                   Stress Test, Bicycle
                   Echo, M-Mode, Doppler, Interpretation Only
93321
         93320
93786
         90030
                   Blood Pressure Check
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EXTCD
         CPT-4
                   DESCRIPTION
93871
          93870
                   Duplex Scanning
93872
          93870
                   Arteriography, Transcutaneous Ultrasonic
93891
         90030
                   Bilat Arm BP Measurements
93911
          93910
                    SEG Pressure Measurements
93912
          93910
                   Ankle Pressure Measurements
94020
         90040
                    Interpretation of Routine Pulmonary Function Studies
94061
         94060
                    Spirometry, After Exercise
94401
         94450
                   Oxygen Stimulation Tests
94691
         95827
                    Sleep Studies
95004
          95001
                    Prick Test To 60
95010
          95002
                    Skin Test, Food, Prick
95012
         95006
                    Skin Test, Drug, Prick
95015
         95022
                    Intradermal Test Skin Test To 30
95024
          95001
                    Skin Test, Inhalants, Prick
95035
          95021
                    Skin Test, Inhalants, Intradermal
          94070
95072
                    Bronchial Challenge, Water
95073
          94070
                    Bronchial Challenge, Sulfite
95074
          94070
                    Bronchial Challenge, Histamine
95090
          95006
                    Skin test, Hymemoptera Venoms, Prick
95091
          95018
                    Skin Test, Hymenoptera Venoms, Intradermal
                   Skin Test, Drugs, Intradermal
Skin Test, Fireant, WBE, Prick
Skin Test, Fireant, WBE, Intradermal
95092
          95016
95093
          95006
95094
          95016
95122
          95131
                    Immunization, Allergy, Two Injections Immunization, Allergy, Three Injections
95123
          95132
95124
          95133
                    Immunization, Allergy, Four Injections
95181
          95180
                    Densensitization Proc, Insulin
95182
          95180
                    Densensitization Proc, Penicillin
          95180
95183
                    Densensitization Proc, Misc
95200
          95078
                    PUC, Mecholyl Skin Test
95201
          95078
                    PUC, Hot Water Immersion Test
                    PUC, Exercise Challenge For Cholinergic Urticaria
95202
          95078
95203
          95078
                    PUC, Ice Cube Test
95204
          95078
                    PUC, Pressure Test Immediate
95205
          95078
                    PUC, Pressure Urticaria Delayed Test
95206
          95078
                    PUC, Vibratory Test
95207
          95078
                    PUC, Morphine Sulfate Skin Test
95208
          95078
                    PUC, Dermographia Test
95210
          86155
                    Rebuck Skin Window
95215
          95078
                    Challenge Test, Dye
95216
          95078
                    Challenge Test, Preservative
95217
          95078
                    Challenge Test, Food
          95078
95218
                    Challenge Test, Aspirin
95219
          95078
                    Challenge Test, NSAIA
95220
          95078
                    Challenge Test, Drug Misc
95221
          90798
                    Emerg Treat, Asthma
95223
          90798
                    Emerg Treat, Anaphylaxis (Epinephrine)
                    Inhalation Therapy
95640
          94640
95850
          95851
                    Biomechanical Exam
95901
          95900
                    Nerve Conduction Studies, Two Extremities
                    Nerve Conduction Studies, Three Extremities
95902
          95900
95903
          95900
                    Nerve Conduction Studies, Four Extremities
95910
          92585
                    Evoked Potentials, Brainstem
                    Evoked Potentials, Visual
95911
          92280
95920
          90000
                    Eval, Neurovascular
95934
          95935
                    Evoked Potentials, (F Reflex)
96502
          90784
                    Injec, Streptokinase, Intravenous
96503
          90782
                    Injec, Gold
96521
          96520
                    Port Pump Refill Day 2-5
96522
          90030
                    Port-A-Cath Flush, Complex
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EXTCD
         CPT-4
                   DESCRIPTION
96523
         90030
                   Port-A-Cath Flush, Simple
         90030
                   Vital Signs Monitoring - 2, 4, or 6 Hours Post Chemo
96548
96550
         90784
                   Injec, Heparin
                   Chemotherapy, Investigational Drug
96600
         96524
97702
         97700
                   Orthotics Check
97703
         97700
                   Prosthetic Check
9705
         90050
                   Pressure Garment Fitting
         99070
98100
                   OPAB, Reece Shoe
         99070
98101
                   OPAB, Reece Shoe W/Extra Padding
98102
         99070
                   OPAB, Plastizote Insole
98103
         99070
                   OPAB, Heat Molded Plastizote
                   OPAB, Spenco Inserts
OPAB, Spenco W/Scaphoid Pads
98104
         99070
98105
         99070
         99070
98106
                   OPAB, Spenco W/Cutouts
                   OPAB, Spenco W/Cutouts & Scaphoid Pads
98107
         99070
98108
         99070
                   OPAB, Spenco W/Metatarsal Pads
                   OPAB, Spenco W/Metatarsal Bars
98109
         99070
98110
         99070
                   OPAB, Spenco W/Dancers Pads
98111
         99070
                   OPAB, Spenco Forefoot Extension
98112
         99070
                   OPAB, Spenco W/Edge
                   OPAB, Spenco W/Scaphoid & Edge
98113
         99070
                   OPAB, Spenco W/Met. Bar & Scahoid pad
98114
         99070
98115
         99070
                   OPAB, Add Mortons Extension
98116
         99070
                   OPAB, 1/4, 3/8, 1/2 Inch Heel Lifts
98117
         99070
                   OPAB, Heel Spur Insert
98118
         99070
                   OPAB, Heel Cups
98119
         99070
                   OPAB, Heel Wedges (Internal)
98120
         99070
                   OPAB, Stock Arch Supports
         99070
                   OPAB, Cork & Leather Arch Supports
98121
98122
         99070
                   OPAB, Polypropylene Arch Supports
98123
         99070
                   OPAB, Dennis Brown Splints
98124
         99070
                   OPAB, BMI
98125
         99070
                   OPAB, UCB Inserts
                   OPAB, Flexi - Flange
98126
         99070
                   OPAB, Sole Wedges (Internal)
98127
         99070
98128
         99070
                   OPAB, Soft Sole
98129
         99070
                   OPAB, Feet, Other
98140
          99070
                   OPAB, Leather Lace or Canvas Lace
                   OPAB, Fabricate Leather Lace
98141
          99070
98142
          99070
                   OPAB, Elastic Anklet
         99070
98143
                   OPAB, Orthoplast Stirrup Splint
98144
          99070
                   OPAB, AFO (Stock)
98145
          99070
                   OPAB, AFO (Fabricated)
98146
          99070
                   OPAB, Short Leg Orthosis
98147
          99070
                   OPAB, M-R Splint
98148
          99070
                   OPAB, Ankle, Other
                   OPAB, Cart./Hinged/Elastic Support
         99070
98160
98161
          99070
                   OPAB, Cho-Pat Strap
          99070
98162
                   OPAB, Neoprene Sleeve
          99070
                   OPAB, Lenox Hill
98163
98164
          99070
                   OPAB, Lerman
                   OPAB, KO (Fabricated)
98165
          99070
98166
          99070
                   OPAB, Measure for Jobst Hose
                   OPAB, Meas F/Jobst Hose W/Garter Belt
98167
          99070
          99070
                   OPAB, Garter Belt
98168
98169
          99070
                   OPAB, Waist Suspension Belt
98170
          99070
                   OPAB, Long Leg Orthosis
98171
          99070
                   OPAB, PTB (Polyproylene)
98172
          99070
                   OPAB, PTB (Orthoplast)
98173
          99070
                   OPAB, Knee/Leg, Other
```

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EXTCD
         CPT-4
                   DESCRIPTION
98174
         99070
                   Patella Stabilizer
98175
         99070
                   Swedish Knee Cage
98180
         99070
                   OPAB, Stump Socks
98181
         99070
                   OPAB, Distal End Pad
98182
         99070
                   OPAB, Pylons/Satch Foot
98183
         99070
                   OPAB, Prosthetics, Other
98190
         99070
                   OPAB, Scottish-Rite
98191
         99070
                   OPAB, Pavlik Harness
98192
         99070
                   OPAB, Akho
98193
         99070
                   OPAB, HO
         99070
98194
                   OPAB, Hips, Other
98200
         99070
                   OPAB, CVA Sling
98201
         99070
                   OPAB, Tennis Elbow
98202
         99070
                   OPAB, Elbow Pads
98203
         99070
                   OPAB, Elastic Wrist Band
98204
         99070
                   OPAB, Canvas Wrist Gauntlet
                   OPAB, Polypropylene Wrist Gauntlet
98205
         99070
98206
         99070
                   OPAB, Measure for Jobst Gloves
98207
         99070
                   OPAB, Finger Splints
98208
         99070
                   OPAB, Airplane Splints
                   OPAB, Arms/Hands, Other
98209
         99070
98220
         99070
                   OPAB, Cervical Collar
98221
         99070
                   OPAB, Four Poster
98222
         99070
                   OPAB, S. O. M. I.
98223
         99070
                   OPAB, Jewett
98224
         99070
                   OPAB, Cash
                   OPAB, TLSO
98225
         99070
98226
         99070
                   OPAB, Chair Back
98227
         99070
                   OPAB, Taylor Back
                   OPAB, Abdominal Binder
98228
         99070
98229
         99070
                   OPAB, L-S/S-I Corset
98230
         99070
                   OPAB, Spinal, Other
98231
         99070
                   Lumbar Corset
98240
         99070
                   OPAB, Stretch Boots
98241
         99070
                   OPAB, Stirrup Changes
98242
         99070
                   OPAB, Heels
98243
         99070
                   OPAB, Wedges (External)
                   OPAB, Build-ups
98244
         99070
                   OPAB, Rocker Bottom
98245
         99070
98246
         99070
                   OPAB, Ripple Soles
98247
         99070
                   OPAB, Crepe Soles
98248
         99070
                   OPAB, Leather Soles
98249
         99070
                   OPAB, Metatarsal Bars (External)
98250
         99070
                   Add Velcro To Shoes
98251
         99070
                   OPAB, Shoes, Other
98252
         99070
                   Measure For Boston Shoes
98260
         99070
                   OPAB, Replace Calf Leather
                   OPAB, Replace Thigh Lacer
98261
          99070
                   OPAB, Refurbish Long Leg Orthosis
98262
          99070
98263
         99070
                   OPAB, Refurbish Short Leg Orthosis
98264
          99070
                   OPAB, Refurbish Scottish-Rite
98265
         99070
                   OPAB, Recover Airplane Splint
98266
         99070
                   OPAB, Readjust Airplance Splint
98267
          99070
                   OPAB, Trim TLSO
                   OPAB, Replace Straps on TLSO
98268
          99070
98269
          99070
                   OPAB, Minor Lennox Hill Repairs
98270
         99070
                   OPAB, Repair Post/Polypropylene Arch
98271
          99070
                   OPAB, Hook & Pike
98272
          99070
                   OPAB, Cut Material W/Bandsaw
98273
          99070
                   OPAB, Sew Material
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| EXTCD | CPT-4 | <u>DESCRIPTION</u> |
|-------|-------|---|
| 98274 | 99070 | OPAB, Remove Shoe Build-up |
| 98275 | 99070 | OPAB, Repair/Replace/Fabs, Other |
| 99025 | 90774 | Exam, Developmental Screen For Handicaps In |
| | | Early Childhood |
| 99069 | 99070 | Ordering Home Dialysis Supplies |
| 99074 | 90030 | Suture Remove & Dress |
| 99076 | 99155 | Teaching, Breast Self Exam |
| 99077 | 99155 | Teaching, Testicular Self Exam |
| 99079 | 99155 | |
| 99081 | 99080 | Med Record Review |
| 99083 | 90155 | Teaching, (Other Direct Patient) |
| 99084 | 99082 | Escort Of patient (AMBUL) |
| 99085 | 99082 | Escort Of Patient (MEDEVAC) |
| 99086 | 99082 | Transport Of Patient (EMER) |
| 99091 | 99080 | Screen, In Process Medical |
| 99092 | 99080 | Screen, POR |
| 99093 | 99080 | Screen, PRP |
| 99094 | 99080 | Screen, Security Clearance |
| 99157 | 99155 | Nurse-Patient Counseling |
| 99158 | 99155 | General Counseling/Advice Contraceptive |
| 99169 | 99160 | Mult Trauma Resus (Team Leader) |
| 99196 | 36415 | Phlebotomy, Diagnostic |

APPENDIX B

AMBULATORY CARE DATA BASE (ACDB) Extended Diagnosis Codes With Conversions To ICD-9-CM

| EXTCD | ICD-9-CM | DESCRIPTION |
|----------------|----------------|--|
| S2102 | V608 | Physical Barriers, Home or Community |
| S2103 | V608 | Health Hazards |
| \$2105 | V608 | Barracks Condition |
| S2106 | V608 | Adequate Housing Unavailable For Dependent |
| S2107 | V602 | Faces Eviction |
| S2108 | V609 | Other Living Condition Problem |
| S2111 | V618 | Responsible Relative Unable To Cope |
| S2112 | V604 | Inadequate Support From Extended Family |
| S2115 | V610 | Situational Family Separation |
| S2117 | V610 | Problem Associated w/Being Sole Parent |
| S2118 | V6120 | Child-Mother |
| S2119 | V618 | Family Problem Associated W/Troop Deployment |
| S2120 | V619 | Other Family Problem |
| S2131 S2132 | 30989 | Problem Adjusting To Medical Condition |
| S2132 S2133 | 30989 | Adjustment To Acute Illness Adjustment To Chronic Illness |
| S2133 S2134 | 30989 30989 | Adjustment To Terminal Illness |
| S2134 S2135 | 30989 | Adjustment to Chronic Disability |
| S2136 | V654 | Poor Understanding Of Injury/Illness, DEA |
| S2130 S2137 | V654 | Poor Understanding Of Treatment Process |
| S2137 S2138 | V658 | Unable To Follow Treatment Program |
| S2139 | V1581 | Unwilling to Follow Treatment Program |
| S2140 | 30151 | Secondary Gains From Illness/Injury |
| 52141 | V659 | Inappropriate Use Of MTF |
| S2142 | V609 | Needs Discharge Plan |
| S2143 | V632 | Needs Nursing Home Placement |
| S2144 | V469 | Dependence On Machines |
| S2145 | 9599 | Assault Victim |
| S2146 | V643 | Requir/Request Proc/Not Avail/Thru/Mil/Ch |
| S2147 | V659 | Other Health/Med Problem |
| S2151 | V602 | Inadequate Income |
| 32152 | V602 | Inadequate Health Coverage |
| S2153 | V608 | Poor Money Management |
| S2154 | V608 | Indebtedness |
| S2155 | V608 | Pay Problems |
| S2156 | V608 | Bad Check Writing |
| S2157 | V608 | Unexpected/Emergency Expenses |
| S2158 | V609 | Other Economic Problem |
| S2161 | V623 | Illiterate |
| S2163 | V400 | Poor Reader |
| S2164 | V623 | School Dropout |
| S2165 | V623 | Inadequate Training/Education |
| S2166 | V623 | Needs Special Educational Program |
| S2168 S2169 | V654 | Requires Information RE: MGT of Illness |
| | V268 | Require/Inform/Regard/Pre/Postnatal/Alter |
| S2170 | V622 | Other ED/VOC Problem |
| S2182 S2184 | V622 V622 | Underemployment Superior Subordinate Difficulty |
| S2184 S2185 | V622 V622 | Superior Subordinate Difficulty Limitations In Kinds Of Employment |
| S2186 | V622 V622 | Inappropriate Employment |
| S2186 S2187 | V622 V622 | Inadequate Job Performance |
| S2187 S2188 | V622 V622 | Other Employment Problem |
| S2203 | V624 | Social Isolation |
| S2204 | V6281 | Peer Relationship Difficulties |
| V | | |

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EXTCD
         ICD-9-CM DESCRIPTION
S2205
         V6281
                   Problems W/Other Personal Relationship
                   Normal Reaction To Stress Situation
         3089
S2207
S2208
         V403
                   Behavioral Management
S2209
         V409
                   Behavior Stressful To PTS/Staff
         V6289
S2210
                   Behavior Stressful to Self/Family/Others
                   Other problem Of Psychosocial Functioning
S2211
         V6289
S2221
         V6129
                   Child Management Problems
         V623
S2222
                   Absence From School
         V623
S2223
                   Discipline Problems At School
S2224
         3129
                   Delinquency
S2225
         3139
                   Other Problem Of Childhood
S2231
         V6289
                   Problems Adjusting To Different Culture
S2232
         V6289
                   Conflicts Of Customs, Mores, Etc
S2233
         V401
                   Language Limitations
S2234
         V629
                   Other Cultural Problem
S2241
         V6289
                   Lack Of Religious Support
S2243
         V626
                   Religious Practice Conflicts
S2245
         V6289
                   Other Religious Problems
         V638
S2251
                   No Community Resources Available
S2252
         V630
                   Resources Inaccessible
         V638
S2253
                   Resources Inadequate For Needs Of Patient
         V608
                   Resource Delay Responding to Need
S2254
S2256
         V639
                   Other Community Resource Problem
S2261
         V602
                   PT/Family Has No Private Transportation
S2262
         V638
                   No Community Transportation Resources
         V608
                   Resources Unavailable On Timely Basis
S2263
S2264
         V602
                   Unreliable Transportation
S2265
         V602
                   Resources Unable To Meet Patient Needs
S2266
         V638
                   Other Transportation Problem
         V613
                   Elderly At risk
S2271
$2272
         V6149
                   Child At Risk
S2273
         V159
                   Other At Risk
52274
         V613
                   Suspected Elderly Abuse
S2275
         99581
                   Confirmed Elderly Abuse
                   Suspected Spouse Abuse
S2279
         V618
S2280
         99581
                   Confirmed Spouse Abuse
S2281
         99581
                   Other Abused Person
S2291
         V6289
                   Multi-Problem Situation
S2292
         V6889
                   Needs Adoptive Services
S2293
         V610
                   Stress Of Divorce Procedings
S2295
         V154
                   Environmental Disaster Victim
S2296
         V654
                   Request/Needs Information
         V6289
S2297
                   Problems Caused By Admin/Bureau Failure
S2298
         V658
                   Social Work Problems, Other, I
                   Social Work Problems, Other, II
S2299
         V658
S2301
         V658
                   Social Work Problems, Other, IV
S3051
         30510
                   Tobacco Use Disorder
V0171
         V017
                   Hepatitis Exposure
                   Immunization, Prophylactic
V05
         V069
V0711
         V071
                   Desensitization to Allergens Follow-up
V0731
         V073
                   INH Prophylaxsis
V0732
         V073
                   Endocarditis, Prophylaxis
V213
         V218
                   Growth Discrepancy
V219
         V6149
                   EFM Functional Need Assessment
V22
         V221
                   Pregnancy, Normal
V226
         V221
                   Pregnancy, Teenage
V23
         V239
                   Pregnancy, High Risk
V2421
         V242
                   Aftercare, OB (PT)
V250
         V2509
                   General Counseling & Advice
V2504
         V2509
                   Vasectomy Request
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EXTCD
         ICD-9-CM DESCRIPTION
V254
         V2540
                  Surveillance Contraceptive Method
V30
         V202
                  Normal Newborn
V4582
         V588
                  T&A Post-OP
V4583
         V588
                  Spine, Post-OP
V4950
         7495
                  Prior Surg Revascular Attempt Of Limb
V5331
         V533
                  Pacemaker, Single Chamber
V5332
         V533
                  Pacemaker, Dual Chamber
V5371
         V537
                  Needs Orthotic Appliance
V5372
         V537
                  Repair Of Orthotic Appliance
V5373
         V537
                  Repair Of Orthotic Prosthetic
V547
         V548
                   Aftercare, Prosthetic Replacement
         V548
V5481
                   Cast Reapplication
V5490
         V549
                  Aftercare Amputation, Hand
V5491
         V549
                  Aftercare Amputation, Finger
V5492
         V549
                  Aftercare Amputation, Upper Arm
V5493
         V549
                   Aftercare Amputation, Forearm
V5494
         V549
                   Aftercare Amputation, Thigh
V5495
         V549
                   Aftercare Amputation, Lower Leg
V5574
         V528
                   Problem With Prosthesis
V5575
         V529
                   Other Reason For Visit
                   Post Laryngectomy, Rehab
V5730
         V573
         V573
                   Laryngeal Disorder, Rehab
V5731
V5732
         V573
                   Post Tracheotomy/Tracheostomy, Rehab
         V5789
                   Post Concussion, Rehab
V5733
                   Aftercare, Knee Surgery
         V584
V5841
V5842
         V584
                   Aftercare, Shoulder Surgery
V5843
         V584
                   Aftercare, Thoracic Surgery
                   Aftercare, Renal Transplant
         V584
V5844
                   Aftercare, Mastectomy
V5845
         V584
                   Aftercare, Vascular Surgery
V5846
         V584
V5847
         V584
                   Aftercare, Cardiac Surgery
         V584
V5881
                   Aftercare, Abdominal Surgery
                   Aftercare, Heart Disease Treatment
V5882
         V588
V5883
         V584
                   Aftercare, Craniotomy
V5890
         V571
                   Aftercare, Amputation, Other (PT)
         V571
V5891
                   Aftercare, Amputation, Upper Arm (PT)
         V571
                   Aftercare, Amputation, Forearm (PT)
V5892
         V571
                   Aftercare, Amputation, Thigh (PT)
V5893
V5894
         V571
                   Aftercare, Amputation, Leg (PT)
V5895
         V572
                   Aftercare, Amputation (OT)
V5896
         V5731
                   Aftercare, Orthotic
V6031
         V603
                   Lives Alone, Unable to Care For Self
         V611
                   Marital Problem
V6110
V6119
         V611
                   Marital Problem
         V6120
                   Suspected Child Neglect
V6122
V6123
         V6121
                   Confirmed Child Neglect
         V6120
V6124
                   Suspected Child Abuse
V6125
         V6121
                   Confirmed Child Abuse
V6126
         V6121
                   Non-Accidental Trauma
V6180
         V618
                   Other Specified Family Circumstances
V6102
         V620
                   Needs Employment
         V620
V6202
                   Laid Off
V6220
         V622
                   Occupational Problem
V6230
         V623
                   Adcademic Problem
V6251
         V6889
                   Needs Consent To Admit Or Treat
V6252
         V6889
                   Needs Consent For Surgical Procedures
V6253
         V6889
                   Needs consent For Discharge Planning
V6254
         V625
                   Needs Protective SVC For Child Or Adult
V6255
         V625
                   Needs Legal Assist For Civil/Med Matters
V6256
         V625
                   Legal Problems, Other
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| EXTCD | ICD-9-CM | DESCRIPTION |
|----------------|----------------|--|
| V6261 | V626 | Religion Opposes Medical Care |
| V6288 | V6289 | Borderline Intellectual Function |
| V6291 | V624 | Psychosocial Deprivation |
| V63 | V639 | Unavail Of Med Facilities For Care |
| V6391 | V638 | No Vacancies In Other Health Care Facilities |
| V6520 | V652 | Malingering |
| V6551 | V655 | Emmetropia |
| V6552 | V642 | Left Against Medical Advice |
| V6553 V6581 | V642 | Left Without Being Seen Blood Pressure Check |
| V6811 | V658 V681 | REQ For Non Prescrip Medication |
| V6882 | V798 | PT Referred By Milpo For Fam Member Screen |
| V7031 | V703 | Exam, School Physical |
| V7032 | V703 | Exam, Sports Physical |
| V7051 | V705 | POR Qualifications |
| V710 | V7109 | NP Observation |
| V7201 | V720 | Request For Glasses |
| V7231 | V723 | Exam, Well Woman |
| V73 | V739 | Special Screening For Viral Disease |
| V7379 | 27910 | HTLV-III, Stage Unspecified |
| V8160 | V816 | Other & Unspec Genitourinary Conditions |
| V8261 | V705 | Wellness Maintenance/Health Promotion |
| 000 | V659 | No Diag/Reasn For Visit Recorded By Prov |
| 00022 | 7999 | Unknown Cause Of Morbidity/Mortality |
| 001 | 0019 | Enteritis, Cholera |
| 00645 | 7999 | Unknown Cause Of Morbidity/Mortality |
| 00731 | 7999 | Unknown Cause Of Morbidity/Mortality |
| 00881 | 0088 | Enteritis, Viral |
| 00882 | 5589 | Diarrhea/Gastroenteritis |
| 00901 | 0090 | Colitis, Proven Infectious |
| 0109 | 01090 | Tuberculin Converter |
| 0119 | 01190 | Tuberculosis, Pulmonary |
| 0120 013 | 01200 01390 | Tuberculosis, Effusion, Pleural |
| 015 | 01590 | Tuberculosis, Meninges & Cent Nervous System Tuberculosis, Bones & Joints |
| 0150 | 01500 | Tuberculosis, Vertebral |
| 0159 | 0318 | Arthritis, Mycobacterial |
| 0160 | 01600 | Tuberculosis, Renal |
| 018 | 01880 | Tuberculosis, Military, Disseminated |
| 019 | 01790 | Tuberculosis, Nonplulmonary |
| 020 | 0209 | Plague |
| 021 | 0219 | Tularemia |
| 022 | 0229 | Anthrax |
| 023 | 0239 | Brucellosis |
| 03191 | 0319 | Infection, Atypical Mycobacterial |
| 038 | 0389 | Septicemia |
| 03981 | 0399 | Nocardia |
| 03990 | 0399 | Actinomycosis |
| 03991 | 0399 | Nocardiosis |
| 04082 | 04089 | Toxic Shock Syndrome |
| 04292 | 27910 | Aids, Neurological |
| 045 | 0459 | Poliomyelitis, Acute |
| 0451 | 04510 | Poliomyelitis, Acute W/Other Paralysis |
| 046 | 0469 | Slow Virus Infection Of Cent Nervous System |
| 052 | 0529 | Varicella (Chickenpox) |
| 054 | 0549 | Herpes Simplex |
| 05430 | 0543 | Herpetic Meningoencephalitis |
| 055 | 0559 | Rubeola |
| 060 | 0609 | Yellow Fever |
| 06553 | 7999 | Unknown Cause Of Morbidity/Morality |

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EXTCD
         ICD-9-CM DESCRIPTION
070
         0709
                   Hepatitis, Viral, NOS
07015
         0701
                  Hepatitis A, Viral W/O Hepatic Coma
                   Condyloma, Acuminatum
07811
         0781
07812
         0781
                   Condyloma, Vagina (Unless Syphilitic)
         0781
07813
                   Warts, Plantar
07814
         0781
                   Condyloma, Vulva (Unless Syphilitic)
07815
         0781
                   Condyloma, Cervix (Unless Syphilitic)
07981
         0798
                   Chlamydia
                   Rickettsiosis Tick Borne
082
         0829
094
         0949
                   Neurosyphilis
098
         0980
                   Gonorrhea
09801
         0980
                   Urethritis, Gonococcal
0989
         09889
                   PPNG
09941
         0994
                   Urethritis, Chlamydia
100
         1009
                   Leptospirosis
         1109
110
                   Dermatophytosis
111
         1119
                   Dermatomycosis, Other, Unspec
114
         11419
                   Coccidioidomycosis
115
         11590
                   Histoplasmosis
         1179
11791
                   Pneumonia, Fungal, Not Histo/Coccid
         1310
1310
                   Trichomoniasis, Urogen
13691
         1369
                   Infectious Disease, Unspec
141
         1419
                   Neoplasm, Malignant, Tongue
                   Neoplasm, Malignant, Gum
143
         1439
144
         1449
                   Neoplasm, Malignant, Floor Of Mouth
         1499
149
                   Neoplasm, Malig, Ill Def Site Lip/Oral
152
         1529
                   Neoplasm, Malig, Small Intest/Deodenum
                   Neoplasm, Malignant, Colon
153
         1539
154
         1548
                   Neoplasm, Malig, Rectum/Rectosigmoid/Anus
1544
         1540
                   Neoplasm, Malignant, Rectosigmoid Junct
155
                   Neoplasm Malig, Liver/Intrahep Bile Ducts
         1552
156
         1568
                   Neoplasm, Malig, Gallbl/Extrahep Bile Ducts
                   Neoplasm, Malignant, Pancreas
157
         1579
158
         1589
                   Neoplasm, Malig, Retroperi & Peritoneum
                   Neoplasm, Malig, Nasal Cav/Mid Ear/Sinus
160
         1608
162
         1628
                   Neoplasm, Malignant, Trachea/Bronchus/Lung
         1628
16281
                   Abenoma, Bronchial, Carcinoid
16290
         1629
                   Neoplasm, Malignant, Bronchogenic, Primary
16291
         1629
                   Neoplasm, Malignant, Lung, Poorly Diff
16292
         1629
                   Neoplasm, Malignant, Lung Undiff
16293
         1629
                   Cylindroma
16294
         1629
                   Neoplasm, Malig, Bronchogenic, Large Cell
         1629
16295
                   Neoplasm, Malig, Bronchogenic, Small Cell
         1629
                   Neoplasm, Malig, Broncho, Squamous Cell
16296
16297
         1629
                   Neoplasm, Malig, Lung/Nodules, Parenchymal
16298
         1629
                   Adenocarcinoma, Lung
163
         1639
                   Neoplasm, Malignant, Pleura
164
         1648
                   Neoplasm Malig, Thyus/Heart/Mediastinum
17000
         1700
                   Neoplasm, Malignant, Temporal Bone, Ear
         1700
17001
                   Neoplasm Malignant, Skull
         1702
17020
                   Neoplasm, Malignant, Vertebral Column
17112
         1719
                   Neoplasm, Malignant, Connective Tissue
17192
         1719
                   Neoplasm, Malignant, Connective Tissue
                   Neoplasm Malig, Lymph/Blood/Soft Tissue
17193
         1718
172
         1729
                   Melanoma, Malignant, Skin
         1739
173
                   Neoplasm Malignant, Skin, Nos
         1739
17391
                   Neoplasm, Malignant, Skin, Basal Cell
                   Neoplasm, Malignant, Squamous Cell
17392
         1739
1811
         181
                   Choriocarcinoma
186
         1869
                   Neoplasm, Malignant, Testes
```

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EXTCD
         ICD-9-CM DESCRIPTION
                   Neoplasm, Malignant, Male Genitalia, Nos
187
         1879
         1890
1895
                   Neoplasm, Malignant, Kidney
                   Neoplasm, Malig, Genitalia, Unspec (Male) C3(Fem)
1896
         1879
                   Neoplasm, Malignant, Eye
Neoplasm, Malignant, Eye/Orbit
190
         1909
19001
         1908
19100
         1910
                   Neoplasm, Malig, Cerebrum, Ex Lobes/Vents
19291
         1719
                   Neoplasm, Malignant, Peripheral Nerves
194
         1949
                   Neoplasm, Malig, Endo Gland & Relat Struct
19440
         1944
                   Neoplasm, Malignant, Pineal Region
         1950
19501
                   Neoplasm, Malignant, Nose
197
          1973
                   Neoplasm, Malig, Respir/Disgest Sys, Secon
198
          19889
                   Neoplasm, Malig, Other Spec Sites, Secondary
19821
          1982
                   Neoplasm, Malig, Mastectomy Site, Secondary
19831
          1983
                   Neoplasm, Malignant, Brain, Secondary
                   Neoplasm, Malignant, Spine, Secondary
Neoplasm, Malignant, Head & Neck, Secondary
19832
          1983
19883
          19889
1991
          1991
                   Neoplasm, Malig, Secondary, Unspec Site
19912
          1991
                   Neoplasm, Malignant, Nos
19913
          1991
                   Paraneoplastic Syndrome
19914
          1991
                   Neoplasm, Malignant, Major Organ, Unspec
19915
          1991
                   Remote Effect Of Neoplasms
1995
          1990
                   Complication, Cancer, All Sites
200
          20080
                   Lymphosarcoma & Reticulosarcoma
2000
          20000
                   Reticulosarcoma
2001
          20010
                   Lymphosarcoma
2002
          20020
                   Burkitt's Tumor or Lymphoma
2008
          20080
                   Other Variants Lymphosarcoma/Reticulosarcoma
201
          20190
                   Hodgkin's Disease
2014
          20140
                   Lymphocytic-Hystiocytic Predominance
2015
          20150
                   Nodular Sclerosis
2016
                   Mixed Cellularity
          20160
2017
          20170
                   Lymphocytic Depletion
202
          20290
                   Neoplasm, Malig, Other Lymphoid/Histiocytic
2020
          20200
                   Nodular Lymphoma
          20210
2021
                   Mycosis Fungiodes
2022
          20220
                   Sezary's Disease
2023
          20230
                   Malignant Histiocytosis
20231
          20230
                   Reticuloendothelioses, Malignant
2024
          20240
                   Leukemic Reticuloendotheliosis
          20250
2025
                   Letterer-Siwe Disease
2026
          20260
                   Malignant, Mast Cell Tumors
                   Lymphoma, Cutaneous
20281
          20280
          20010
29282
                   Lymphoma, Lymphocytic, Malignant, Nos
20283
          20280
                   Lymphoma/Leukemia, Primary Of Lung
204
          2049
                   Lymphocytic Keukemia
205
          2059
                   Leukemia, Myeloid
                   Leukemia, Myelocytic, Acute
20501
          2050
                   Leukemia, Myelocytic, Chronic
20511
          2051
206
          2069
                   Leukemia, Monocytic
208
          2089
                   Leukemia, Unspec Cell Type
21121
          2112
                   Neoplasm, Benign, Small Intestine
21210
          2121
                   Papilloma, Laryngeal
                   Papilloma, Vocal
21211
          2121
21300
          2130
                   Neoplasm, Benign, Skull
21321
          2132
                   Neoplasm, Benign, Spine
21501
          2150
                   Neuroma, Neck
21593
          2159
                   Neuroma, Unspec
21691
          7019
                   Acrochordon
21692
          2169
                   Dermatofibroma
21693
          2169
                   Nevus, Melanocytic, Benign
```

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EXTCD
         ICD-9-CM DESCRIPTION
21694
         2169
                  Neoplasm, Benign, Skin/Subcutaneous Tissue
2171
         217
                   Papilloma, Intraductal
2172
                   Fibroadenoma, Breast
         217
221
         2219
                   Neoplasm, Benign, Female Genitalia
222
         2229
                  Neoplasm, Benign, Male Genitalia
2234
         2230
                   Neoplasm, Benign, Kidney
225
         2254
                  Meningioma, Intracranial Or Spinal
22511
         2251
                  Neuroma, Acoustic
22701
         2270
                   Pheochromocytoma
22702
         2270
                   Adenoma, Adrenal Gland
         2273
22731
                   Neoplasm, Benign, Sellar/Suprasellar
22740
         2274
                  Neoplasm, Benign, Pineal Region
2280
         22801
                   Hemangioma
2299
         2298
                   Neoplasm, Benign, Unspec Site
22994
         1991
                   Neoplasm, Mesothelioma
23291
         2329
                   Bowen's Disease, Site Unspec
23292
         2329
                  Melanoma, In-Situ
23293
         702
                   Keratosis, Actinic
23331
         2333
                   Carcinoma, In-Situ, Vulva, Cis
23332
         2333
                   Carcinoma, In-Situ, Vagina, Cis
23571
         2357
                   Adenoma, Bronchial
23821
         7011
                   Keratoacanthoma
23861
         2386
                   Plasmacytoma
23900
         2390
                   Neoplasm, Nasopharynx, Unspec Nature
23901
         2390
                   Neoplasm, Esophagus, Unspec Nature
23902
         2390
                   Neoplasm, Stomach, Unspec Nature
23903
         2390
                   Neoplasm, Bilitary Tract, Unspec Nature
23904
         2390
                   Neoplasm, Liver, Unspec Nature
23905
         2390
                   Neiplasm, Pancreas, Unspec Nature
23906
         2390
                   Neoplasm, Gallbladder, Unspec Nature
23907
         2390
                   Neoplasm, Small Intestine, Unspec Nature
                   Neoplasm, Colon, Unspec Nature
23908
         2390
23909
         2390
                   Neoplasm, Signoid, Unspec Nature
23911
         2391
                   Neoplasm, Larynx, Unspec Nature
23912
         2391
                   Neoplasm, Pleura, Unspec Nature
23921
         2391
                   Neoplasm, Epidermal, Unspec Nature
23922
         2392
                   Neoplasm, Dermal, Unspec Nature
         2392
23923
                   Neoplasm, Subcutaneous, Unspec Nature
23924
         2392
                   Neoplasm, Spinal Column, Unspec Nature
23951
         2395
                   Neoplasm, Cervix, Unspec Nature
23952
         2395
                   Neoplasm, Kidney, Unspec Nature
                   Neoplasm, Ovary, Unspec Nature
23953
         2395
                   Neoplasm, Penis, Unspec Nature
23954
         2395
23955
         2395
                   Neoplasm, Prostate, Unspec Nature
23956
         2395
                   Neoplasm, Testicle, Unspec Nature
23957
         2395
                   Neoplasm, Uterus, Unspec Nature
23963
         2396
                   Neoplasm, Brain Tumor, Unspec
23970
         2397
                   Neoplasm, Spinal Cord, Unspec Nature
23971
          2580
                   Neoplasm, Mult Endocrine Neoplasia Synd
                   Neoplasm, Spinal Meninges, Unspec Nature
23975
         2397
23976
         2397
                   Neoplasm, Adrenal, Unspec Nature
23977
         2397
                   Neoplasm, Nervous System, Unspec Nature
23978
         2397
                   Neoplasm, Pituitary, Unspec Nature
23979
         2397
                   Neoplasm, Thyroid, Unspec Nature
23900
         27992
                   Orbital Mass
23981
         2390
                   Neoplasm, Salivary Gland, Unspec Nature
23982
         2390
                   Neoplasm, Tongue, Unspec Nature
23983
                   Neoplasm, Tonsils, Unspec Nature
         2390
23984
         2390
                   Neoplasm, Rectum/Anus, Unspec Nature
24091
         2409
                   Goiter, Diffuse Nontoxic
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| EXTCD | ICD-9-CM | DESCRIPTION |
|-------------------------|--------------------------|--|
| 2420 | 24200 | Goiter, Diffuse Toxic |
| 2429 | 24290 | Hyperthyroidism |
| 24490 | 2449 | Hypothyroidism, Acquired |
| 24521 | 2452 | Thyroiditis, Hashimoto's |
| 24621 | 2469 | Mass, Thyroid |
| 250 | 25000 | Diabetes Mellitus |
| 2506 | 25060 | Neuropathy, Diabetic |
| 2509 | 25090 | Diabetic Complication, Nos |
| 25300 | 2530 | Acromegaly & Gigantism |
| 25311 | 2531 | Hyperprolactinemia Ant Pit Hyperfunct |
| 25312 25320 | 2531 2532 | Amenorrhea/Galactorrhea Ant Pit Hyperfunct |
| 25541 | 2554 | Panhypopituitarism Addison's Disease |
| 25581 | 255 4 2558 | Adrenal Hyperplasia |
| 25631 | | Hypogonadism, Female |
| 25721 | 2572 | Hypogonadism, Male |
| 25881 | 2588 | Polyglandular Failure, Autoimmune |
| 27131 | | Intolerance, Lactose Pediatric |
| 272 | 2729 | Metabolic Disorder, Lipid |
| 274 | 2749 | Gout |
| 27541 | 2754 | Hypercalcemia |
| 27542 | 2754 | Hypocalcemia |
| 27581 | 2758 | Metabolic Bone Disease |
| 27691 | | Potassium Disorders, Other |
| 2770 | 27700 | Cystic Fibrosis |
| 27741 | 2774 | Bilirubin Metabolism, Abnormal |
| 27781 | | Granuloma, Eosinophilic |
| 27801 | 2780 | Obesity, Pediatric |
| 2791 27916 | 27919 27910 | Deficiency, Cell-Mediated Immunity |
| 27917 | | HTLV III Positivity Aids Related Complex (ARC) |
| 27918 | 27910 | Immunodeficiency, Acquired (Aids) |
| 27922 | 2792 | Immunodeficiency, Hereditary |
| 280 | 2809 | Anemia, Deficiency, Iron |
| 281 | 2819 | Anemia, Deficiency, Unspec |
| 28220 | 2822 | Anemia, Deficiency, G-6PD |
| 2826 | 28260 | Anemia, Sickle Cell |
| 2838 | 2831 | Anemia, Hemolytic, Toxic |
| 284 | 2849 | Anemia, Aplastic |
| | 2848 | Anemia, Aplastic, Due To Chronic Disease |
| 285 | 2859 | Anemia, Unspec |
| 287 28711 | 2872 2871 | Purpura Consularathy Platelet Pefects Resided |
| 28901 | 2890 | Coagulopathy, Platelet Defects Acquired Polycythemia, Spurious |
| 28981 | 2898 | Macrocytosis |
| 28982 | 2898 | Myelofibrosis |
| 28991 | 2899 | Thrombocytosis, Essential |
| 28992 | 2899 | Thrombocytosis, Other |
| 29000 | 2900 | Dementia, Pri Degen Senile Onset, Uncompl |
| 29030 | 2903 | Dementia, Senile, W/Delirium |
| 2905 | 2948 | Organic Mental Disord, Uncomplicated |
| 29100 | 2910 | Alcohol, Withdrawal Delirium |
| 29101 | 2910 | Delerium Tremens |
| 29110 | 2911 | Alcohol, Amnestic Disorder |
| 29120 | 2912 | Dementia, Alcoholic, Unspec |
| 29130 291 4 0 | 2913 2914 | Alcohol, Hallucinosis Alcohol, Idiosyncratic Intoxication |
| 29180 | 291 4 2918 | Alcohol Withdrawal |
| 29180 | 2929 | Psychosis, Drug |
| 29290 | 2929 | Psychosis, Drug |
| | | |

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ICD-9-CM DESCRIPTION
EXTCD
29300
         2930
                   OBS W/ Delirium
         2930
29301
                   Confusional State, Acute, Organic
                   Psychosis, Toxic/Metabolic
29391
         2948
29400
                   Amnestic Syndrome, OBS W/Add DX or Unknown
         2940
29410
         2941
                   Dementia, OBS W/Add DX or Unknown Etiol
                   Organic Psychoses Excl Alcoholic
2942
         2949
                   Dementia, Post-Traumatic
2943
         2941
29480
         2948
                   Organic Brain Syndrome Atypical Or Mixed
2953
         29530
                   Paranoid Type Disorder
2959
         29590
                   Schizophrenia, Unspec
         2980
2962
                   Depressive Psychosis
29622
         29620
                   Depression, Major, Single Episode, W/O ME
29623
         29620
                   Drpression, Major, Single Episode, W/Mela
                   Depression, Maj, Sin Epi, W/Psy Feat Mood
29627
         29620
2963
         29630
                   Depression, Major, Recurrent Episode
                   Depression, Major, Recurrent, W/O Melanch
29632
         29630
                   Depression, Major, Recurrent, W/Melanchol
29633
         29630
                   Depression, Maj, Recurr, W/Psy Feat Mood
29637
         29630
29642
         29640
                   Bipolar Disorder, Manic, W/O Psychotic FE
2965
         29650
                   Bipolar Affective Disorder, Depressed
29652
         29650
                   Bipolar Disorder, Depressed, W/O Psychoti
29657
         29654
                   Bipolar Dis, Dep W/Psy Feat Mood Incong
                   Bipolar Disorder, Mixed, W/O Psychotic
29662
         29660
2967
         29664
                   Bipolar Dis, Mix, W/Psy Feat Mood Incong
29670
         2967
                   Bipolar Disorder, Atypical
29710
         2971
                   Paronoia
29730
         2973
                   Paranoid Disorder, Shared
29790
         2979
                   Paranoid Disorder, Atypical
29830
         2983
                   Paranoid Disorder, Acute
29889
         2988
                   Psychosis, Brief Reactive
29890
         2989
                   Psychosis, Atypical
2990
         29900
                   Autism
300
         3009
                   Neupotic Disorder
3000
         30000
                   Anxiety Disorder
30003
         30000
                   Anxiety/Tension Nos
30017
         30016
                   Compensation Neurosis
30030
         3003
                   Obsessive Compulsive Disorder
                   Dysthymic Disorder (Depressive Neurosis)
30040
         3004
30060
         3006
                   Depresonalization Disorder
30070
          3007
                   Hypochodriasis
30071
          3007
                   Somatoform Dis, Atypical
30072
         3007
                   Phamtom Lump
30090
          3009
                   Unsdbc Ment Dis Nonpsycho
30093
          3009
                   Suicide Gesture
301
          3019
                   Personality Disorder
30100
          3010
                   Personality Disorder, Paranoid
3011
          30110
                   Affective Personality Disorder
30140
          3014
                   Personality Disorder, Compulsive
                   Personality Disorder, Dependent
30160
          3016
30170
                   Personality Disorder, Antisocial
          3017
                   Personality Disorder, Unspecified
30198
          3019
30200
          3020
                   Ego-Dystonic Homosexuality
30210
          3021
                   Zoophilia
30220
          3022
                   Pedophilia
30230
          3023
                   Transvestism
30240
          3024
                   Exhibitionism
30260
          3026
                   Gendor Identity Dis Child
          30270
3027
                   Psychosexual Dysfunction
30278
          30272
                   Immence, Psycogenic
                   Psychosexual Disorder, Unspecified
30298
          3029
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| EXTCD | ICD-9-CM | DESCRIPTION |
|------------------------|---------------|---|
| 3039 | 3030 | Alcohol Dependence, Other & Unspec |
| 3050 | 30500 | Alcohol Abuse |
| 3051 | 30510 | Tobacco Use Disorder |
| 30595 | 30590 | Other, Mixed, Unspec Drug Abuse |
| 306 | 3069 | Physiological Malfunction, Mental Facotr |
| 30600 30601 | 3060 3060 | Psychophysiological Musculoskeletal Dis Psychophysiological Musculoskeletal Dis |
| 30700 | 3070 | Stuttering |
| 30710 | 3071 | Anorexia Nervosa |
| 30760 | 3076 | Eneuresis, Functional |
| 30770 | 3077 | Encopresis, Functional |
| 3078 | 30780 | Psychalgia |
| 308 | 3089 | Acute Reaction To Stress |
| 30830 30900 | 3083 3090 | Post Traumatic Stress Disorder, Acute |
| 3092 | 30929 | Adjustment Disorder W/Depressed Mood Adjustment Reaction W/Predom Disturb Oth |
| 30930 | 3093 | Adjustment Dis W/Disturb Of Conduct |
| 30940 | 3094 | Adjustment Dis W/Mix Disturb Emotion/Cond |
| 3098 | 30989 | Adjustment Reactions, Other Spec |
| 30990 | 3099 | Adjustment Reaction, W/Atypical Features |
| 31010 | 3101 | Organic Personality Synd |
| 312 | 3129 | Conduct Disorder, Nec |
| 31223 | 31220 | Cond Dis, Socialized, Aggres |
| 31290 31300 | 3129 3130 | Conduct Disorder, Atypical Overanxious Disorder, Childhood/Adol |
| 31399 | 3139 | Emotional Disturb Or Childhood/Adol |
| 31480 | 31400 | Attention Deficit Disorder, Residual Type |
| 31491 | 3149 | Minimal Brain Dysfunction |
| 31510 | 3151 | Developmental Arithmetic Disorder |
| 3153 | 31531 | Developmental Speech/Language Disorder |
| 31591 | 3159 | Delayed Emotional Maturation |
| 31600 | 316 | Psych Fact Affect Phys Cond |
| 31700 31800 | 317 3180 | Mental Retardation, Mild W/O Other Behavior Mental Retardation, Mod W/O Other Behav Sym |
| 31810 | 3181 | Mental Retardation, Severe W/O Other Behav |
| 320 | 3209 | Menigitis, Bacterial Nos |
| 32110 | 1179 | Meningitis, Fungal |
| 32291 | 3209 | Meningitis, Presumed Bacterial |
| 323 | 3239 | Encephalitis/Myelitis |
| 32390 | 3239 | Myelitis, Acute Transverse |
| 32391 | 3239 3240 | Encephalomyelitis |
| 32401 32411 | 3240 | Intracranial Abscess/Empyema Intraspinal Abscess/Empyema |
| 3251 | 325 | Thrombosis, Cavernous Sinus |
| 3260 | 326 | Late Effect Of Myelitis, Acute Transverse |
| 327000 | 30540 | Barb Sim Act Sed/Hyp Intoxication |
| 32701 | 2920 | Barb Sim Act Sed/Hyp Withdrawal |
| 32702 | 2920 | Barb Sim Act Sed/Hyp Withdrawal Delerium |
| 32704 | 29283 | Barb Sim Act Sed/Hyp Amnestic Disorder |
| 32710 32711 | 30550 2920 | Opioid Intoxication Opioid Withdrawal |
| 32720 | 30560 | Cocaine Intoxication |
| 32730 | 30570 | Amphet Sim Act Sympath Intoxication |
| 32731 | 29200 | Amphet Sim Act Sympath Withdrawal |
| 32732 | 29281 | Amphet Sim Act Sympath Delerium |
| 32735 | 29211 | Amphet Sim Act Sympath Delusional Disorder |
| 32740 | 30590 | PCP/Sim Act Arylcycloh Intoxication |
| 32742 | 29281 | PCP/Sim Act Arylcycloh Delirium |
| 327 49 32755 | 2929 29211 | PCP/Sim Act Arylcycloh Mix Organ Ment Dis Hallucinogen Delusional Disorder |
| 32133 | ~ 7 ~ 1 1 | Harractichen Dernetolier Disorder |

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ICD-9-CM DESCRIPTION
EXTCD
32756
                  Hallucinogen Hallucinosis
         30530
32757
         29284
                  Hallucinogen Affective Disorder
         30520
32760
                  Cannabis Intoxication
32765
         29211
                   Cannabis Delusional Disorder
32790
         30590
                   Intoxication, Subs, Unspec
32791
         2920
                  Withdrawal, Subs, Unspec
32792
         29281
                  Delerium, Subs Unspec
32793
         29282
                  Dementia, Drug Induced, Subs Unspec
32794
         29283
                   Annestic Disorder, Drug Ind, Subs Unspec
32795
         29211
                   Delusional Disorder, Subs, Unspec
                  Hallucinosis, Drug Induced, Subs, Unspec
32796
         29212
32797
         29284
                   Affective Disorder, Drug Ind, Subs Unspec
32798
         29289
                   Personality Disorder, Drug Ind, Subs Unsp
32840
         30590
                   PCP/Sim Act Arylcycloh Abuse, Unspec
32841
         30591
                   PCP/Sim Act Arylcycloh Abuse, Continuous
32842
         30592
                   PCP/Sim Act Arylcycloh Abuse, Episodic
         30593
32843
                   PCP/Sim Act Arylcycloh Abuse, In Remission
3315
         3315
                   Hydrocephalus, Acquired
332
         3320
                   Parkinson's Disease
333
         33390
                   Other Movement Disorders (Extrapyramidal)
33320
         3332
                   Myoclonus, Hereditary
33321
         3332
                   Myoclonus, Toxic-Metablolic
33333
         3333
                   Tics Of Organic Origin
         3349
                   Spinocerebellar Disease
334
335
         3359
                   Anterior Horn Cell Disease
33600
         3360
                   Syringomyelia & Syringobulbia
         3369
                   Lesion, Spinal Cord, w/o Vertebral Injury
33691
33700
         3370
                   Carotidynia
33701
         3370
                   Carotid Sinus Syndrome
                   Dystrophy, Reflex Sympathetic
33791
         3379
33792
         3379
                   Shoulder-Hand Syndrome
         340
3400
                   Multiple Sclerosis, Acute
3401
         340
                   Multiple Sclerosis, Chronic
342
         3429
                   Hemiplegia
         3459
345
                   Epilepsy
34500
         3450
                   Epilepsy, Generalized, Nonconvulsive
34510
         3451
                   Epilepsy, Generalized, Convulsive
34542
         3454
                   Epilepsy, Complex Partial (Temporal Lobe)
34550
         3455
                   Epilepsy, Partial, Simple
34591
          3451
                   Epilepsy, Generalized Tonic-Clonic
                   Epilepsy, Focal Onset W/Sec Generalized
34592
          3458
346
          3469
                   Headache, Migraine
34621
          3462
                   Headache, Cluster
34820
          3482
                   Benign Intracranial Hypertension
34881
          3489
                   Brain Disease, Acquired
          3490
34900
                   Headache, Lumbar Puncture
          3509
350
                   Trigeminal Nerve Disorder (5th)
35010
          3501
                   Trigeminal Neuralgia
351
          3510
                   Facial Nerve Palsy (7th)
          3510
3512
                   Spasm, Hemifacial
35291
          3529
                   Palsey, Third Cranial Nerve
35292
          3529
                   Palsey, Sixth Cranial Nerve
                   Rucksack Palsy
35301
          3530
          3522
                   Disorder Glossopharyngeal Nerve (9th CN)
35322
35351
          3535
                   Parsonage-Turner Syndrome
354
          3545
                   Mononeuritis, Upper Limb And Multiplex
35420
          3542
                   Lesion Of Ulnar Nerve
          3558
                   Mononeuritis, Lower Limb
355
35591
          3559
                   Dysfunction, Nerve, Other
35592
          3559
                   Neuropathy, Other
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| EXTCD | ICD-9-CM | DESCRIPTION |
|----------------|----------------|--|
| 35593 | 3559 | Peripheral/Spinal Nerve Disorder |
| 35594 | 3559 | Palsy, Posterior Interrosseous Nerve |
| 35595 | 3559 | Nerve Entrapment Syndrome |
| 35596 | 3559 | Palsy, Anterior Interrosseous Nerve |
| 35681 | 3568 | Palsy, Progressive Supranuclear |
| 358 | 3589 | Nyoneural Disorder |
| 35800 | 3580 | Myasthenia Gravis, Ocular |
| 3585 | 3588 | Neuromuscular Blockage, Non-Myasthenic |
| 359 | 3599 | Muscular Dystrophy & Other Myophathy |
| 35910 | 3591 | Dystrophy, Muscular Nos |
| 35911 | 3591 | Dystrophy, Muscular, Duchenne's |
| 35912 | 3591 | Dystrophy, Muscular, Becker's |
| 35913 | 3591 | Dystrophy, Muscular, Limb Girdle |
| 35914 | 3591 | Dystrophy, Muscular, Facioscapulohumeral |
| 35981 | 3598 | Myopathy, Glycogen Storage |
| 35982 | 3598 | Myopathy, Lipid's Storage |
| 35983 | 3598 | Myopath, Infectious |
| 35984 | 3598 | Myopathy, Traumatic |
| 3600 3602 | 36000 36020 | Endophthalmitis, Purulent Degenerative Disorders Of Globe |
| 3602 | 36030 | Hypotony Of Eye |
| 36083 | 36089 | Loss Of Eye, Aftercare |
| 3610 | 36100 | Retinal Detachment w/Retinal Defect |
| 3611 | 36110 | Retinoschisis & Retinal Cysts |
| 3618 | 36181 | Other Forms Retinal Detachment (Inc Traction) |
| 3620 | 36201 | Diabetic Retinopathy |
| 3621 | 36210 | Other Background Retinopathy/Retin Vas Changes |
| 3622 | 36229 | Other Prolif Retinopathy (Non-Diabethic) |
| 3626 | 36260 | Retinal Degeneration, Peripheral |
| 3627 | 36270 | Hereditary Retinal Dystrophies |
| 3628 | 36289 | Other Retinal Disorders |
| 3633 | 36330 | Chorioretinal Scars |
| 3634 | 36340 | Choroidal Degenerations |
| 3635 | 35350 | Hereditary Choroidal Dystrophies |
| 3640 | 3643 | Iridocyclitis |
| 3645 3646 | 36457 36460 | Degerations Of Iris & Ciliary Body Cysts Of Iris, Ciliary Body/Ant Chamber |
| 3647 | 36470 | Adhesions/Disrupt Of Iris & Ciliary Body |
| 365 | 3659 | Glaucoma |
| 3650 | 36500 | Glaucoma Suspect (Borderline Glaucoma) |
| 3652 | 36520 | Primary Angle-Closure Glaucoma |
| 3654 | 36541 | Glaucoma w/Congen Anomal, Dystroph & Sys |
| 3656 | 36560 | Glaucoma w/Other Ocular Disorder (Second) |
| 366 | 3669 | Cataract |
| 36605 | 36600 | Cataract, Infantile |
| 3661 | 36610 | Cataract, Senile |
| 3662 | 36620 | Cataract, Traumatic |
| 3663 | 36630 | Cataract, Seconary To Ocular Disorders |
| 3665 | 36650 | Post Cataract Opacification |
| 36700 | 3670 | Hyperopia |
| 36723 | 36720 | Astigmatism, Hyperopic |
| 36724 | 36720 | Astigmatism, Mixed |
| 36725 36741 | 3720 36751 | Astigmatism, Myopic Accommodative Disorder |
| 36741 36791 | 36751 3679 | Refractive Error |
| 3681 | 36810 | Subjective Visual Disturbance |
| 36817 | 36813 | Photophobia |
| 36818 | 3688 | Visual/Perceptual Motor Dysfunction |
| 3685 | 36859 | Color Vision Deficiencies |
| 3690 | 36900 | Profound Visual Impairment (Both Eyes) |

| EXTCD | ICD-9-CM | DESCRIPTION |
|--------------|----------------|---|
| 3700 | 37000 | Corneal Ulcer |
| 3702 | 37020 | Superficial Keratitis w/o Conjuctivitis |
| 3703 | 37040 | Keratoconjunctivitis |
| 3705 | 37050 | Interstitial & Deep Keratitis |
| 3706 | 37060 | Corneal Neovascularization |
| 3710 | 37100 | Corneal Scars & Opacities |
| 3711 | 37110 | Corneal Pigmentations & Deposits |
| 3712 | 37120 | Corneal Edema |
| 3713 | 37130 | Changes In Corneal Membrane |
| 3714 | 37140 | Corneal Degeneration |
| 3716 | 37160 | Keratoconus |
| 3720 | 37200 | Conjunctivitis, Acute |
| 3721 | 37210 | Conjunctivitis, Chronic |
| 3722 | 37220 | Blepharoconjuctivitis |
| 3724 | 37240 | Pterygium |
| 3727 | 37274 | Conjunctival Vascular Disorders & Cysts |
| 3730 | 37300 | Blepharitis |
| 3731 | 37311 | Hordeolum |
| 3733 | 37331 | Non-Infectious Dermatosis Of Eyelid |
| 3740 | 37400 37410 | Entropion |
| 3/41 | 3/410 | Ectropion |
| 3743 | 37430 | Ptosis, Eyelid |
| 37435 | 74489 | Ptosis Of Eyebrow |
| 37436 | | Deformity, Eyebrow, Acquired |
| 37437 | 74489 | Deformity, Eyebrow, Levator |
| 3744 | 37445 | Sensorimotor Disorders Of Eyelid |
| 37491 | | Excess Skin, Orbit, Acquired |
| 375 | 3759 | Lacrimal System Disease |
| 3750 | 37500 | Dacryoadenitis, Unspec |
| 3752 3753 | 37520 37530 | Epiphora |
| 3755 3755 | 37553 37553 | Acute & Unspec Inflam Lacrimal Passages Stenosis & Insuff Of Lacrimal Passages |
| 3760 | 37600 | Acute Inflammation Of Orbit |
| 3761 | 37610 | Chronic Inflammatory Disorders Of Orbit |
| 3762 | 37621 | Exophthalmos, Endocrine |
| 377 | 3779 | Disorders Of Optic Nerve And Visual Pathways |
| 3770 | 37700 | Papilledema (Optic Disc Edema) |
| 3771 | 37710 | Atrophy, Optic |
| 3772 | 37754 | Optic Disc Disorders, Others |
| 3773 | 37730 | Neuritis, Optic |
| 3774 | 37749 | Disorders Of Optic Nerve, Other |
| 3775 | 37754 | Disorders Of Optic Chiasm |
| 3776 | 37754 | Disorders Of Other Visual Pathways |
| 3777 | 37754 | Disorders Of Visua: Cortex |
| 3780 | 37800 | Esotropia |
| 37809 | 37883 | Convergence Insufficiency |
| 3781 | 37810 | Exotropia |
| 37819 | 37885 | Divergence Insufficiency |
| 37846 | 37840 | Hyperphoria |
| 3785 | 37850 | Strabismus, Paralytic |
| 3786 | 37860 | Strabismus, Mechanical |
| 3787 | 37873 | Strabismus, Other Specified |
| 3788 | 37887 | Binocular Eye Movements Disorders, Other |
| 37891 | 3789 | Strabismus |
| 37895 | 37884 | Convergence Excess |
| 37896 | 37885 | Divergence Excess |
| 37907 | 0940 | Posterior Sclerosis |
| 37908 | 37900 | Episcleritis |
| 3791 | 37919 | Sclera Disorders, Other |
| 3799 | 37990 | Eye and Adnexa Disorder, Unspec |
| | | |

| EXTCD | ICD-9-CM | DESCRIPTION |
|----------------|----------------|---|
| 3800 | 38000 | Perichrondritis, Auricle |
| 3801 | 38023 | Otitis Externa |
| 3802 | 38023 | Otitis Externa, Other |
| 3812 | 38120 | Otitis Media, Mucoid |
| 38150 | 38160 | Eustachian Tube Blockage |
| 382 | 3824 | Otitis Media, Supprative & Unspec |
| 3820 3832 | 38200 38320 | Otitis Media, Supprative, Acute Ostemomastoiditis |
| 38391 | 3839 | Mastoiditis (Coalescent) |
| 3840 | 38400 | Myringitis, Acute w/o Otitis Media |
| 38426 | 38420 | Perforated Tympanic Membrane, Nontraumatic |
| 3851 | 38510 | Otitis Media, Adhesive |
| 3860 | 38600 | Meniere's Syndrome |
| 3863 | 38630 | Labyrinthitis |
| 3864 | 38640 | Fistula, Labyrinthine |
| 3881 | 38810 | Noise Effects Of Inner Ear |
| 3883 | 38830 | Tinnitus |
| 3890 | 38900 | Hearing Loss, Conductive |
| 3891 | 38910 | Hearing Loss, Sensorineural |
| 391 | 3919 | Rheumatic Fever w/Heart Involvement |
| 392 39701 | 3929 3970 | Chorea, Sydenham's Rheumatic Heart Disease, Tricuspid Valve |
| 401 | 4019 | Hypertension, Essential |
| 402 | 40290 | Hypertension w/Cariovascular Disease |
| 403 | 4039 | Hypertension w/Renal Dysfunction |
| 405 | 40599 | Hypertension, Secondary |
| 40592 | 40591 | Hypertension, Renovascular |
| 410 | 4109 | Acute Myocardial Infarction |
| 413 | 4139 | Angina Pectoris |
| 414 | 4149 | Heart Disease, Ischemic, Chronic, Other F |
| 41401 | 4140 | Heart Disease, Atherosclerotic, Post Cabg |
| 41402 | 4140 | Arteritis, Coronary Heart Disease |
| 41406 | 4140 | Heart Dis, Atheroscler, Norm LV (EF>40%) |
| 41407 41408 | 4140 4140 | Heart Dis, Atheroscler, ABN, LV (EF>40%) |
| 41408 | 4140 | Heart Dis, Atherosclerotic, Post PTCA Heart Disease, Atherosclerotic, Unstable |
| 41781 | 4178 | Vasculitis, Pulmonary, Acute, Unspec |
| 4229 | 42290 | Myocarditis, Acute |
| 42401 | 4240 | Mitral Annular Calcification |
| 42402 | 4240 | Mitral Valve Regurgitation |
| 42403 | 4240 | Prolapse, Mitral Valve |
| 42411 | 4241 | Regurgitation, Aortic |
| 42412 | 4241 | Stenosis, Aortic, Valve Heart (Nonrheum) |
| 42414 | 4241 | Endocarditis, Aortic Valve |
| 42415 | 4241 | Stenosis, Aortic |
| 42421 | 4242 | Tricuspid Valve, Regurg (Nonrheumatic) |
| 42422 | 4242 | Tricuspid Valve, Regurgitation, Primary |
| 42423 42431 | 4242 4243 | Tricuspid Valve, Regurgitation, Secondary Stenosis, Valvular Pulmonic |
| 42431 | 4243 | Endocarditis, Pulmonary Valve |
| 42433 | 4243 | Regurgitation, Pulmonic, Primary |
| 42434 | 4243 | Regurgitation, Pulmonic, Secondary |
| 42491 | 42490 | Endocarditis Nos |
| 425 | 4254 | Cardiomyopathy |
| 4256 | 4254 | Cardiomyopathy, Dilated |
| 2620 | 4262 | Left Anterior Fascicular Block, LAFB |
| 42621 | 4262 | Left Posterior Fasterior Block, LPFB |
| 42690 | 4269 | Prolonged QT |
| 427 | 4279 | Cardiac Dysrhythmias |
| 42791 | 4279 | Arrhythmia, Cardiac |

| EXTCD | ICD-9-CM | DESCRIPTION |
|----------------|---------------|---|
| 42792 | 42789 | Tachycardia, Multifocal Atrial |
| 42793 | 42789 | Bradycardia |
| 42801 | 4280 | Heart Failure, Congestive, Second To ASHD |
| 42802 | 4280 | Heart Fail, Congest, Sec To Endocarditis |
| 42891 | 4289 | Heart Failure, Idiopathic |
| 42931 | 4293 | Hypertrophy, Left Ventricular |
| 42990 42991 | 4299 42789 | Cardiac Disease, Unspec Arrhythmia, Atrial & Ventricular, Other |
| 43210 | 4321 | Hemorrhage, Cereb, Subdur W/O Paralysis |
| 433 | 4339 | Occlusion & Stenosis Precerebral Arteries |
| 434 | 4349 | Occlusion Of Cerebral Arteries |
| 435 | 4359 | Transient Cerebral Ischemia |
| 43591 | 4359 | Trans Ischemic Attck W/Neuro Def (Rine) |
| 4361 | 436 | Cerebrovascular Accident (CVA) Left |
| 4362 | 436 | Cerebrovascular Accident (CVA) Right |
| 4363 | 436 | Cerebrovascular Accident, Multiple Lacunar |
| 440 | 4409 | Atherosclerosis |
| 44021 | 4402 | Gangrene, Arteriosclerotic |
| 4405 | 4409 | Ischemic Vascular Disease, Generalized |
| 4438 | 4439 | Peripheral Vascular Disease, Extremities |
| 44391 | 4439 44422 | Intermittent Claudication |
| 4442 4443 | 44422 | Arterial Embol/Thrombosis, Arteries Extrem Arterial Embolism/Thrombosis, Systemic |
| 4448 | 44489 | Arterial Embolism/Thrombosis, Other Spec |
| 446 | 4460 | Polyarteritis Nodosa & Allied Conditions |
| 44601 | 4462 | Vasculitis, Eosinophilic (Churg-Strauss) |
| 44602 | 4460 | Angitis, Necrotizing Sarcoidal |
| 44621 | 4462 | Goodpasture's Syndrome |
| 44651 | 4465 | Arteritis, Temporal |
| 44760 | 2870 | Vasculitis, Cutaneous |
| 44761 | 4476 | Arteritis, Unspec |
| 44782 | 4478 | Hyperlasia, Fibromuscular-Carotid |
| 44783 | 4478 | Vasculitis, Kidney |
| 44784 | 4478 | Dysplasia, Fibromuscular |
| 451 4511 | 4519 45119 | Phlebitis/Thrombophlebitis Phlebitis, Deep, Lower Extremity |
| 454 | 4549 | Varicose Veins, Lower Extremity |
| 459 | 4599 | Circulatory System Disorders, Other |
| 45901 | 4590 | Drug Extravasation |
| 4601 | 460 | Coryza |
| 4602 | 460 | URI Acute (Cold) |
| 461 | 4619 | Sinusitis, Acute |
| 4631 | 463 | Adenotonsillitis, Acute |
| 4641 | 46410 | Tracheitis, Acute |
| 4642 | 46420 | Acute Laryngitis & Tracheitis |
| 4643 | 46430 | Epiglottitis |
| 466 | 4660 | Bronchitis & Bronchiolitis |
| 471 | 4719 | Polyp, Nasal, (Nasal/Sinus) |
| 472 | 4722 | Pharyngitis & Nasopharyngitis, Chronic |
| 47202 47203 | 4720 4720 | Rhinitis, Sicca |
| 47203 | 4720 4722 | Rhinitis, Medicamentosa Nasopharyngitis, Purulent, Chronic |
| 47204 | 4722 | Sinusitis, Chronic |
| 47380 | 4739 | Drainage, Por' hasal |
| 4741 | 47410 | Hypertrophy, Tonsils, Adenoids |
| 47480 | 4748 | Cyst, Tonsil |
| 47481 | 4748 | Tonsillar Tag |
| 477 | 4779 | Rhinitis, Allergic |
| 47780 | 4720 | Rhinitis, Nonspec |
| 47781 | 4770 | Rhinitis, Allergic, Trees |

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EXTCD
           ICD-9-CM DESCRIPTION
47782
           4770
                     Rhinitis, Allergic, Grass
47783
           4770
                     Rhinitis, Allergic, Weeds
47784
           4778
                     Rhinitis, Allergic, Mold
47785
           4778
                     Rhinitis, Allergic, Pet
Rhinitis, Allergic, Dust
47786
           4778
47787
           4778
                     Rhinitis, Allergic, Mites
47788
          4779
                     Rhinitis, Allergic, Seasonal
                    Rhinitis, Allergic, Perennial
Rhinitis, Non-Allergic W/Eosinophilia
Rhinitis, Vasomotor
47789
          4779
47790
          4720
47791
          4779
          4781
47810
                     Abscess, Nasal Septal
47812
          4781
                     Perforation, Septal
47814
          4781
                     Nasal Disorder, Other
47827
          47826
                     Cyst, Hypopharynx
                    Paralysis, Vocal Cord
Paralysis, Vocal Cord, Iatrogenic
Paralysis, Vocal Cord, Chronic
4783
          47830
47835
          47830
          47830
47836
47878
          47879
                     Obstruction, Laryngeal
480
          4809
                     Pneumonia, Viral
48281
          4828
                     Pneumonia, Mycobacterial-Non-Tuberculosis
491
          4919
                    Bronchitis, Chronic
49181
          4918
                     Bronchiolitis Obliterans
492
          4928
                    Emphysema
493
          49390
                    Asthma
4930
          49300
                    Asthma, Extrinsic
4931
          49310
                    Asthma, Intrinsic
4939
          49390
                    Asthma, Allergic
49392
          49390
                    Asthma, Non-Allergic
          39390
49393
                    Asthma, Episodic/Confining
49394
                    Asthma, Fully Reversible
          49390
49395
          49490
                    Asthma, Partially Reversible
49396
          49390
                    Asthma, Bronchodilator Dep
49397
          49390
                    Asthma, Steriod Dep
49398
          39390
                    Asthma, Exercise Induced
49399
          49390
                    Asthma, Occupational
495
          4959
                    Alveolitis, Allergic, Extrinsic
49521
          4952
                    Pigeon Breeder's Lung
49591
          4959
                    Pneumonitis, Hypersensitivity
4961
          496
                    Impaction, Mucoid, Tracheobroncheal
5011
          5119
                    Effusion, Pleural, Secondary To Asbestos
50781
          515
                    Pneumonitis, Interstitial, Drug Induced
508
          5089
                    Respiratory Cond other Unspec Ext Agents
510
          5109
                    Empyema
          5110
                    Pleurisy
511
5117
          5119
                    Effusion, Pleural, Sec To Pneumoconiosis
51181
          5119
                    Effusion, Pleural, Sec To Malignancy
51182
          5119
                    Effusion, Pulmonary, Sec to Mesothelioma
                    Effusion, Pleural, Secondary to Fungal Effusion, Pleural, Unspec
51183
          5119
51190
          5119
512
          5128
                    Pneumothorax
5150
          515
                    Pneumonitis, Interstitial
5151
          5168
                    Pneumonitis, Interstitial, Desquamative
516
          5169
                    Pneumonopathy, Other Alveolar/Parietoalve
51681
          5168
                    Pneumonitis, Interstitial, Lymphocytic
518
          5188
                    Lung Disease, Other
51880
          4954
                    Aspergillosis, Allergic Bronchopulmonary
51881
          5188
                    Nodule, Pulmonary
          5191
51911
                    Stenosis, Tracheal
51981
          5198
                    Obstruction, Upper Airway
52400
          5240
                    Microgenia
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EXTCD
         ICD-9-CM DESCRIPTION
52401
          5240
                   Receding Chin (Congenital)
         5241
52410
                   Retrognathism
52411
         5241
                   Asymmetry Of Mandiable
52721
         5272
                   Parotitis, Acute
52722
          5272
                   Parotitis, Chronic
52761
         5285
                   Mucocele, Lip
530
          5309
                   Esophagus Disease
                   Esophagitis, Infectious
53010
          5301
53012
         5301
                   Esophagitis, Caustic
53051
          5305
                   Motor Disorder, Non-Specific (Esophagus)
531
          53190
                   Ulcer, Gastric
5311
          53110
                   Ulcer, Gastric, Acute W/Perforation
5314
          53140
                   Ulcer, Gastric, w/Hemorrhage
          53140
53142
                   Ulcer, Stomach, w/Hemorrh Only
5315
          53150
                   Ulcer, Stomach, w/Perfor Only
                   Ulcer, Duodenal
Ulcer, Duodenum (W/Hemorrh Only)
532
          53290
5324
          53240
5325
          53250
                   Ulcer, Duodenum (W/Perfor Only)
5329
          53290
                   Duodenal Ulcer w/o Hemorrhage Or Perforat
          53390
                   Ulcer, Peptic, Unspec Site
533
                   Peptic Ulcer Dis Nos
5339
          53390
53501
          5350
                   Gastritis w/Hemorrhage
53561
          5353
                   Duodenitis w/Hemorrhage
53680
          5368
                    Stasis/Retention
53681
          5368
                   Acid Peptic Disease
540
          5409
                   Appendicitis, Acute
550
          55090
                   Hernia, Inguinal
                   Hernia, Inguinal w/Obstruction W/O Gangre Hernia, Inguinal w/o Obstruction/Gangrene
5501
          55010
          55090
5509
55091
          55090
                   Hernia, Inquinal w/o Obstruct Unilateral
5532
          55320
                   Hernia, Ventral
55380
          5538
                   Hernia, Abdominal
555
          5559
                   Enteritis/Ileitis Regional
5561
          556
                    Colitis, Ulcerative
55890
          5589
                   Gastronenteritis
55891
          5589
                   Diarrhea
55892
          5589
                    Colitis, Idiopathic
562
          56210
                    Diverticula Of Intestine
5620
          56200
                    Diverticulum, Small Intestine, Nos
564
          5649
                    Digestive Disorder, Functional, Nec
56490
          5648
                    Motility Disorder, Small Bowel
56491
          5369
                    GI Disorder, Unspec
                    Fissure/Fistula, Anal
565
          5650
567
          5679
                    Peritonitis
5688
          56881
                    Hemoperitoneum
569
          5699
                    Intestine Disorders, Other
56948
          56949
                    Proctitis, Nos
5701
          570
                    Hepatic Failure, Acute
          5719
                    Chronic Liver Disease & Cirrhosis
571
5714
          57140
                    Hepatitis, Chronic
                    Hepatitis, Chronic, Active, Viral
57142
          0709
57221
          5722
                    Encephalopathy, Hepatic
          5733
                    Hepatitis, Drug Induced
57331
          5733
                    Hepatitis, Toxic
57332
57391
          5739
                    Dysfunction, Liver, Antibiotic Associated
5740
          57400
                    Cholelithiasis w/Cholecystitis
5742
          57420
                    Cholelithiasis w/o Cholecystitis
5745
          57450
                    Choledocholithiasis w/o Cholecystitis
575
          5759
                    Gall Bladder Disorder, Other
57510
          5751
                    Cholecystitis, Chronic
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EXTCD
          ICD-9-CM DESCRIPTION
57610
          5761
                   Cholangitis, Acute
57611
          5761
                   Cholangitis, Chronic Sclerosing
57781
          5778
                   Insufficiency, Pancreatic
57890
          5789
                   Bleeding, Upper GI
Bleeding, Lower GI
57891
          5789
                   Anomaly, Vascular W/Hemorrhage
57894
          5789
57895
          5789
                   Bleeding, Occult GI
57896
          5789
                   Bleeding, GI Nos
584
          5849
                   Renal Failure, Acute
5861
          586
                   Renal Failure, W/Uremia
589
          5899
                   Kidney, Small, Unknown Cause
5900
          59000
                   Pyelonephritis, Chronic
5901
                   Pyelonephritis, Acute
          59010
59390
          5939
                   Kidney Disease Nos
59392
          5939
                   Renal Disorder, Unspec
59393
          59389
                   Renal Disorder, Obstructive
59394
          5939
                   Renal Insufficiency
595
          5959
                   Cystitis
599
          5999
                   Urethra/Urinary Tract Disorder, Other
59901
          5990
                   Infection, Urinary Tract, Chronic
59951
         5995
                   Urethrocele/Cystocele, Male
5998
         5999
                   GU Disorder
601
         5019
                   Prostatitis
603
          6039
                   Hydrocele
604
          60590
                   Orchitis & Epididymitis
606
          6069
                   Infertility, Male
6078
          60789
                   Disorders, Penis, Other Spec
608
         6089
                   Genital Organ Disorder, Male, Other
60888
         60889
                   Mass, Scrotal
60892
         6089
                   Pain, Testicular
610
         6109
                   Dysplasia, Mammary, Benign
61010
          6101
                   Mastitis (Cystic), Chronic
61011
         6101
                   Fibrocystic Disease, Breast
611
         6119
                   Breast Disorder, Other
61101
         6110
                   Mastitis
61102
         6110
                   Abscess, Breast
61112
         6111
                   Hyperplasia, Breast
61113
         6111
                   Hypertrophy, Breast
61114
         6111
                   Macromastia
6117
         61171
                   Mastodynia
                   Deformity, Breast
61180
         6118
61181
         6118
                   Ptosis, Breast
61191
         6118
                   Implants/Augmentation Breast
6161
         61610
                   Vaginitis/Vulvovaginitis
61612
         61610
                   Vaginitis, Nos
61613
         61610
                   Vulvovaginitis
61614
                   Vaginitis, Gardnerella
         61610
         6179
617
                   Endometriosis
         6209
620
                   Ovary/Fal Tube/Broad Lig Noninflam Disord
62131
         6213
                   Hyperplasia, Endometrial Adenomatous
62132
         6213
                   Hyperplasia, Endometrial Cystic
625
         6259
                   Pain, Pelvic
62591
         6259
                   Pain, Vaginal
626
         6269
                   Menstruation & Other Bleeding Disorder
62601
         6260
                   Amenorrhea, Primary
62602
         6260
                   Amemorrhea, Secondary
62681
         6268
                   Dysfunction, Menstrual
62711
         6271
                   Bleeding, Postmenopausal w/Hormonal Ther
62712
         6271
                   Bleeding, Postmenopausal w/o Hormon Ther
628
         6289
                   Infertility, Female
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EXTCD
          ICD-9-CM DESCRIPTION
633
                   Pregnancy, Ectopic
                   Abortion, Spontaneous
634
          63490
6341
          63410
                   Abortion, Spontaneous, Excessive Hemorrha
635
          63590
                   Voluntary Interruption Of Pregnancy
6373
          63730
                   Abortion, Unspec, Comp By Renal Failure
640
          64093
                   Hemorrhage In Early Pregnancy
6400
                   Abortion, Threatened
          64003
641
          64113
                   Antepart Hemorr, Abrupt Placent & Place
6410
          64103
                   Placenta Previa w/o Hemorrhage
6411
          64113
                   Hemorrhage From Placenta Previa
6420
          64293
                   Pregnancy Complication, Hypertenison DRB & VA
6424
          64243
                   Pre-Eclampsia, Mild
6425
          64253
                   Pre-Eclampsia, Severe
6430
         64303
                   Hyperemesis Gravidarum
644
          64403
                   Labor, Premature
6441
          64413
                   Labor, False
6442
          64420
                   Early Onset Of Delivery
                   Pregnancy Complication, Renal Disease
6462
         64623
6466
         64663
                   Infection, Genitourinary Tract, Pregnancy Related
                   Pregnancy, Complication, Herpes Genitalis
64661
         64763
6467
         64673
                   Pregnancy, Complication, Liver Disorder
                   Pregnancy, Complication, Hepatitis
64675
         64673
6468
         64693
                   Pregnancy Complication, Other
64681
         64893
                   Pregnancy, Complication, Endocrine Disorder
64682
         64893
                   Pregnancy, Complication, Seizure Disorder
64683
         64893
                   Pregnancy, Complication, Asthma
6469
         64693
                   Pregnancy, Complication, Nos
64695
         64893
                   Dermatosis, Pregnancy
64696
         64893
                   Pregnancy, Complication, Pulmonary Disease
64761
         64763
                   Pregnancy, Complication, Other Viral Disease
6480
         64803
                   Pregnancy, Complication, Diabetes
6482
         64823
                   Pregnancy, Complication, Anemia
6486
         64863
                   Pregnancy, Complication, Cardiovascular Disease
6488
         64883
                   Diabetes, Gestational
64891
         64893
                   Pregnancy, Complication, Systemic Lupus Erythemato
64892
         64893
                   Pregnancy, Complication, Gastrointestinal Disease
6522
         65223
                   Breech Presentation W/O Mention Of Versio
6523
         65233
                   Transverse/Oblique Presentation
6530
         65303
                   Abnormality, Major, Bony Pelvis
6537
                   Fetal Abnormality Causing Disproportion
         65373
6542
         65423
                   Cesarean Section, Previous
6545
         65453
                   Incompetent Cervix
         65583
655
                   Fetal Abnormality, Known/Suspected
6553
         65530
                   Fetal Damage Suspected FM Viral Disease I
6561
         65613
                   Isoimmunization, RH
6562
         65623
                   Isoimmunization, Other
                   Fetal Death In Utero
6564
         65643
65655
         65653
                   Intrauterine Growth Retardation
6566
         65663
                   Fetal Growth, Excessive
657
         65703
                   Polyhydramnios/Hydramnios
6580
         65803
                   Oligohydramnious
6581
         65813
                   Premature Rupture Of Membranes
6662
         66624
                   Delayed & Secondary, Postpartum Hemorrhage
66882
         66884
                   Anesthesia Complicatn, Delivery w/Postpart
6712
         67123
                   Thrombophlebitis, Superficial, Preg/Puerp
6732
         67324
                   Pregnancy, Complication, Thromboembolism
674
         67494
                   Complications Of Puerperium
         67414
6741
                   Disruption, Cesarean Wound
6743
         67434
                   Complication, OB Surgical Wounds, Other
675
         67594
                   Breast & Nipple Infections Assoc w/Childbirth
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EXTCD
         ICD-9-CM DESCRIPTION
6752
         67524
                   Mastitis, Nonpurulent
676
         67634
                   Breast Disorder, Other
68091
         6829
                   Abscess, Pyoderma
68092
         6809
                   Boil/Carbuncle/Furuncle
                   Furuncle (May Want To Combine With 6809)
68093
         6809
681
         6819
                   Cellulitis/Abscess, Finger/Toe
6810
         68100
                   Cellulitis, Finger
6811
         68110
                   Cellulitis, Toe
68112
         68111
                   Paronychia Toe
682
         6829
                   Cellulitis/Abscess
68291
         6829
                   Abscess
6854
         7854
                   Necrosis, Skin
68611
         6861
                   Granuloma, Nos
691
         6918
                   Dermatitis, Atopic
692
         6929
                   Dermatitis, Contact, Nos
6927
         69270
                   Dermatitis, Contact, Solar Radiation
69272
         69279
                   Photosensitive Diseases, Photoallergic
         69279
69273
                   Photosensitive Diseases, Phototoxic
                   Photosensitive Diseases, Polymorphous Light
69274
         69279
                   Sensitivity, Dyes, Preservatives & Additives
69282
         69289
                   Dermatitis, Contact, Allergic
Dermatitis, Nos
69291
         6929
69292
         6929
69293
         6929
                   Eczema (Nummular)
69294
         6929
                   Dermatitis, Contact, Unspec Cause
69295
         6929
                   Dermatitis, Contact, Vulva
69530
         6953
                   Rosacea/Perioral Dermatitis
69531
         6953
                   Rhiophyma
69540
         6954
                   Lupus Erythematosus, Discoid
69541
         6954
                   Lupus Erythematosus, Subacute
69587
         69589
                   Granuloma, Annulare
6959
         69589
                   Dermatitis, Exfoliative
                   Psoriasis, Nos
Pruritus & Related Conditions
696
         6961
         6989
698
69830
         6983
                   Lichen Simplex, Chronicus
69831
         6983
                   Neurodermatitis, Local
70101
         7010
                   Lichen Sclerosus Et Atrophicus
70102
         7010
                   Morphea
70103
         7010
                   Scleroderma, Linear
70141
         7014
                   Scar, Hypertrophic
70180
         7018
                   Aging Face, Dermatochalasis
70181
         7018
                   Cutis Laxa, Senilis
         7018
70182
                   Elastosis Senilis
70183
         7018
                   Rhytidosis Facialis
70184
         7018
                   Cutis Laxa Abdomen
70185
         7018
                   Rhytidosis, Perioral
70190
         7019
                   Flacid Atrophy, Congenital, Face
70191
         7019
                   Flacid Atrophy, Acquired, Face
70192
         7019
                   Excess or Redundant Skin, Extremities
7020
         702
                   Keratosis, Seborrheic
7021
         7011
                   Keratosis, Other
703
         7039
                   Nail Disease Nec
70381
         7038
                   Onychauxis
704
         7038
                   Hair/Hair Follicle Disease
7040
         70400
                   Alopecia
70480
         7048
                   Folliculitis
70481
         7048
                   Pseudofolliculitis Barbae
70490
         7011
                   Keratosis Pilaris
705
         7059
                   Sweat Gland Disorder
7058
         70589
                   Sweat Gland Disorder, Other
70610
         7061
                   Cyst, Acne
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EXTCD
          ICD-9-CM DESCRIPTION
70621
          7062
                   Cyst, Pilar
70622
          7062
                   Cyst, Sebaceous
70623
          7062
                   Torre Syndrome (Mult Sebaceous Tumor)
70624
          7062
                   Cyst, Mucous
70625
          7062
                   Cyst, Epidermal, Incl Milia
7065
          7062
                   Cyst
7072
          7071
                   Ulceration Of Foot, Diabetic Associated
7073
          7071
                   Ulceration Of Toe, Diabetic Associated
708
          7089
                   Urticaria
70881
          7085
                   Urticaria, Cholinergic
70882
          7088
                   Urticaria, Recurrent
70883
         7088
                   Urticaria, Acute
70884
          7088
                   Urticaria, Chronic
70885
          7088
                   Urticaria, Physical
70886
         7088
                   Urticaria, Infectious
          7099
709
                   Skin/Subcutaneous Tissue Disorder, Other
70901
         7090
                   Chloasma (Melasma)
70902
         7090
                   Lentigo
70903
         7090
                   Pigmentation, Hyper
70904
         7090
                   Pigmentation, Hypo
70905
         7090
                   Tattoo
70906
         7090
                   Vitiligo
70921
         7092
                   Scar, Adherent
70922
         7092
                   Scar, Atrophic
70923
         7092
                   Capsular Scarring, Capsular (Post-Augmentation)
                   Scar, Contracted
Scar, Painful
70924
         7092
70925
         7092
70926
         7092
                   Scar, Face, Nos
70927
         7092
                   Deformity, Facial, Cosmetic, Acne
70981
         7098
                   Chapped Skin
70991
         7099
                   Lymphocytoma Cutis
         7109
710
                   Connective Tissue Disease, Diffuse
71012
         7101
                   Scleroderma, Crest
71091
         7108
                   MCTD/Overlap Syndromes
7110
         71100
                   Arthritis, Septic
7115
         0799
                   Arthritis, Viral
7116
         1179
                   Arthritis, Fungal
7119
         71190
                   Arthritis, Infectious, Unspec
7122
         2754
                   Pseudogout
7128
         71280
                   Arthropathy, Hydroxyapetite
7131
         5699
                   Arthritis, Enteropathic
71321
         2827
                   Arthropathy, Hemoglobinopathy
71322
         2860
                   Arthropathy, Hemophilia
71323
         28260
                   Arthropathy, Sickle Cell
7143
         71430
                   Polyarthritis, Chronic, Juvenile
71434
         71430
                   Arthritis, Juvenile Rheumatoid, Adult
7159
         71590
                   Osteoarthrosis, Unspec
71593
         7213
                   Osteoarthrosis, Thoracic, Lumbar Spine
71594
                   Osteoarthritis, Elbow
         71592
71599
         71598
                   Arthrosis, Basal Joint
7161
         71610
                   Arthritis, Traumatic
7165
         71650
                   Arthritis, Polarticular, Unspec
7166
         71660
                   Arthritis, Monoarticular, Unspec
7169
         71690
                   Arthropathy, Unspec
717
                   Derangement, Internal Knee
         7179
7178
         71789
                   Derangement, Internal Knee, Other
7181
         71810
                   Joint, Loose Body
                   Contracture, Joint
7184
         71840
71876
         71886
                   Instability, Knee, Chronic
7189
         71890
                   Derangement, Joint, Unspec
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| EXTCD | ICD-9-CM | DESCRIPTION |
|----------------|----------------|---|
| 7190 | 71900 | Hydrarthrosis |
| 71902 | 71901 | Effusion Joint, Shoulder |
| 7191 | 71910 | Hemarthrosis |
| 7192 7194 | 71920 71940 | Synovitis, Villonodular Arthralgia |
| 71948 | 71945 | Pain, Joint, Back |
| 7195 | 71950 | Joint Stiffness |
| 7199 | 71990 | Joint Disorder |
| 720 | 7209 | Spondylitis, Inflammatory, Unspec |
| 72101 | 7210 | Spondylosis, Cervical W/O Myelopathy |
| 72131 | 7213 | Spondylosis, Lumbosacral |
| 7219 | 72190 | Spondylosis, Unspec Site |
| 72201 72202 | 7220 7220 | Herniated Nucleus Pulposus, C4-5 Herniated Nucleus Pulposus, C5-6 |
| 72202 | 7220 | Herniated Nucleus Pulposus, C6-7 |
| 72204 | 7220 | Herniated Nucleus Pulposus, Other |
| 72212 | 72210 | Displacement, Lumbar/Sacral Disc |
| 72213 | 72210 | Herniated Nucleus Pulposus, L3-4 |
| 72214 | 72210 | Herniated Nucleus Pulposus, L4-5 |
| 72215 | 72210 | Herniated Nucleus Pulposus, L5-s1 |
| 72216 | 72210 | Herniated Nucleus Pulposus, Other Lumbar |
| 72217 | 7222 | Herniated Nucleus Pulposus, Recurrent |
| 7225 | 72252 7234 | Lumbodorsal Disc Degeneration Radiculopathy, C5 |
| 72341 72342 | 7234 | Radiculopathy, C6 |
| 72342 | 7234 | Radiculopathy, C7 |
| 72344 | 7234 | Radiculopathy, Other Cervicothoracic |
| 72381 | 7238 | Cervical Facet Syndrome |
| 724 | 7249 | Back Disorder, Other & Unspec |
| 7240 | 72400 | Stenosis, Spinal, Other Than Cervical |
| 72403 | 72400 | Lateral Recess Syndrome |
| 72411 | 7241 | Pain In Thoracic Spine |
| 72421 72422 | 7242 7242 | Pain, Low Back w/o Radiating Symptoms Pain, Low Back w/Radiating Symptoms |
| 72423 | 7242 | Pain, Low Back |
| 72441 | 7244 | Radiculitis, Thoracic |
| 72442 | 7244 | Radiculopathy, L4 |
| 72443 | 7244 | Radiculppathy, L5 |
| 72444 | 7244 | Radiculopathy, S1 |
| 72445 | 7244 | Radiculopathy, Other L-S |
| 72461 | 7246 | Sacroliliac Dysfunction |
| 726 | 72690 72610 | Peripheral Enthesopath & Allied Syndromes |
| 7261 7263 | 72610 72630 | Rotator Cuff Syndrome Enthesopathy, Elbow Region |
| 72641 | 7264 | Bursitis, Hand Or Wrist |
| 72668 | 72669 | Iliotibial Band Syndrome |
| 7267 | 72670 | Enthesopathy, Ankle & Tarsus |
| 7269 | 72690 | Enthesopathy, Unspec |
| 72692 | 72690 | Tendinitis |
| 72693 | 72612 | Tendinitis, Bicipital |
| 727 | 72709 | Synovium/Tendon/Bursa Disorder, Other |
| 7270 72707 | 72700 72700 | Synovitis/Tenosynovitis Tenosynovitis |
| 72707 | 72700 | Synovitis/Tenosynovitis, Elbow |
| 72710 | 7271 | Bunion, 1st Metatarsal |
| 72711 | 7271 | Bunion, 5th Metatarsal |
| 7274 | 7062 | Cyst, Myxioid Cobine With Mucous Cyst |
| 7276 | 72760 | Rupture Of Tendon, Nontraumatic |
| 7281 | 72819 | Myositis Ossificans |
| 72851 | 7285 | Subluxing/Hypermobile Shoulder |

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EXTCD
         ICD-9-CM DESCRIPTION
7287
          72879
                   Fibromatoses, Other
72886
          72889
                   Overuse Syndrome (Soft tissue), Lower Leg
72891
          84212
                   Injury, Gamekeepers, Thumb
729
          7299
                   Soft Tissue Disorder, Other
72961
          7296
                   Retained hardware, Knee
7298
          7295
                   Pain, Extremity (Not Joint)
72983
          72989
                   Upper Extremity Disorder
72984
          72989
                   Lower Extremity Disorder
72991
          7299
                   Musculoskeletal Syndromes Assoc w/Malignancy
72992
         7299
                   Soft Tissue Disorders
                   Ostemomyelitis, Acute
7300
          73000
7301
         73010
                   Ostemoyelitis, Chronic
7302
         73020
                   Osteomelitis Nos
73220
         7322
                   Epiphysis, Upper Femoral Slipped
73276
         7327
                   Osteochondritis Dissecans, Knee
73277
         7327
                   Osteochondritis Dissecans, Ankle
7330
         73000
                   Osteoporosis
73311
         7331
                   Fracture, Pathologic, Femoral Shaft
73312
                   Fracture, Hip, Stress
         7331
73313
         7331
                   Fracture, Foot, Stress
73314
         7331
                   Fracture, Leg, Stress
73315
         7331
                   Stress Fracture, Boot Top
73316
         7331
                   Stress Fracture, Public Rami
73317
         7331
                   Stress Fracture, Femur, Mid-Shaft
73318
         7331
                   Stress Fracture, Femur, Distal
7332
         73320
                   Bone Cyst
73383
         73382
                   Delayed Union, Lower Leg
73384
         73382
                   Pseudoarthrosis
         73390
7339
                   Bone/Cartilage Disorder, Other & Unspec
73392
         7177
                   Chondromalcia, Knee
73393
         73390
                   Osteopenia
73397
         73399
                   Costochondritis
73398
                   Sesamoiditis
         73399
                   Deformity, Ankle/Foot, Acquired, Other Podiatric Conditions
7367
         73679
73678
         73679
73691
         7369
                   Deformity, Epiphyseal
                   Deformity, Rotational Knee
73696
         7366
73697
         73689
                   Deformity, Rotational Lower Leg
737
         7379
                   Curvature Of Spine
7371
         73710
                   Kyphosis, Acquired
73728
         73729
                   Hyperlordosis
7373
         73730
                   Scoliosis/Kyphoscoliosis
73802
         7380
                   Deformity, Nose, Developmental
73811
         7381
                   Deformity, Face, Acquired
73812
         5285
                   Deformity, Lip, Acquired
                   Spondylolisthesis, Degen
73841
         7384
73842
         7384
                   Spondylolisthesis w/o Lysis
73881
         7366
                   Deformity, Angular Knee
739
         7399
                   Lesion, Nonallopathic, Nec
7410
         74100
                   Spina Bifida w/Hydrocephalus
7419
         74190
                   Spina Bifida w/o Hydroscephalus
74191
         74190
                   Meningomyelocele
7425
         74259
                   Anomaly, Spinal Cord, Other Spec
74255
         74259
                   Tethered Cord
74258
         74259
                   Myelodysplasia
74291
         74190
                   Anomalies, Nervous System, Congenital
74292
         7429
                   Anomaly, Brain, Congenital Nos
7434
         74349
                   Congenital Anomalies Of Anterior Segment
7436
         74369
                   Congenital Anom, Eyelids/Lacrim Sys/Orbit
74408
         3888
                   Atresia, Aural, Acquired
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EXTCD
         ICD-9-CM DESCRIPTION
74428
         74429
                   Protruding Ears, Congenital
                   Anomalies, Maxillofacial, Nec
74488
         74489
                   Deformity, Face, Congenital, Nos
74491
         7449
745
         74519
                   Anomalies, Bulbus Cordis & Cardiac Septal
7456
         74560
                   Defect, Endocardial Cushion
74652
                   Prolapse, Mitral Valve w/Regurgitation
         7466
7471
         74710
                   Coarctation Of Aorta
7478
         74789
                   Anomaly, Circ Sys, Cong, Other Spec
74780
         74789
                   Aneurysm, Multiple
                   Aneurysm, Anterior Comm Art
74782
         74781
         74781
74783
                   Aneurysm, Posterior Comm Art
         74781
74784
                   Aneurysm, Mid Cerebral Art
74785
         74781
                   Aneurysm, Ant Cerebral Art
                   Aneurysm, Other ICA
74786
         74781
74787
         74781
                   Aneurysm, Basilar Tip
74788
         74789
                   Aneurysm, Other Post Circ
7479
         7476
                   Malformation, Arteriovenous
7490
         74900
                   Cleft Palate
         74910
7491
                   Cleft Lip
7492
         74920
                   Cleft Palate/Lip
7501
         75010
                   Anomalies, Tongue, Other
                   Anomalies, Oropharyngeal, Nos
75091
         7509
         7509
75092
                   Deformity, Lip, Congenital, Nos
                   Anomaly, Cervix, Congenital
75243
         75240
75249
         7529
                   Anomaly, Genitalia Female, Congen, Nos
75291
         7529
                   Anomalies, Genitalia, Male, Congen, Nos
753
         7539
                   Anomalies, Urinary System, Congenital
75311
         7531
                   Polycystic Kidney Disease
         7536
                   Atresia, Congenital, Bladder & Neck
75361
75362
         7536
                   Atresia, Congenital, Urethra
75391
         7539
                   Anomalies, Kidney, Congenital, Nos
                   Dislocation, Hip, Congenital Subluxation, Hip, Congenital
         75430
7543
75436
         75432
7545
         75459
                   Varus Deformity Of Foot
7546
         75469
                   Valgus Deformity Of Foot
75478
         75479
                   Equinus
7556
         75569
                   Anomalies, Lower Limb
75568
         75565
                   Dislocation, Patella, Congenital
75570
         75567
                   Tarsal Coalitions
756
         7569
                   Anomalies, Musculosketel, Other Congent
75601
         7560
                   Pseudo Hypertelorism
75602
         7560
                   Hypertelorism
                   Anomalies, Spine
7561
         75610
75618
         75612
                   Spondylolisthesis W/Lysis
75671
         7567
                   Anomalies Of Skull/Face Bones
         75739
75736
                   Prokeratosis
75737
         75739
                   Hailey-Hailey Disease
75738
         75739
                   Darier's Disease
75761
         7576
                   Hypolasia, Breast
75791
         7579
                   Nevus (Not Nevocellular), Nos
758
         7589
                   Anomalies, Chromosomal
         7592
75921
                   Lingual Thyroid
75980
         7598
                   Marfan's Syndrome
75981
         7598
                   Defect, Biochemical, Hereditary
76510
         7651
                   Prematurity (Secondary Visual Condition)
76511
         7651
                   Prematurity
778
         7789
                  ! Integumnt & Temp Reg Cond-Fetus/Newborn
77841
         7784
                   Fever, < Mos of Age
78020
         7802
                   Vasovagal Syncope
         7803
78031
                   Convulsion, Febrile
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EXTCD
          ICD-9-CM DESCRIPTION
78042
          7804
                   Vertigo
7805
          78050
                   Sleep Disturbance
78092
          7809
                   Pain, Chronic
78094
          7809
                   Amnesia, Transient Global
78095
          7809
                   Amnesia, Nos
78096
          7809
                   Pain, Secondary To Malignancy
781
          7819
                   Nervous/Musculoskeletal System Symptom
78131
          7813
                   Handwriting Problem
78191
         7819
                   Deficit, Sensory, Nec
78192
         7819
                   Neurological Disorder Nec
78193
         7819
                   Neurologic Symptoms, Ill Defined
78194
         7819
                   Deficit, Cortical, Nos
782
         7829
                   Skin Symptoms
78201
         7820
                   Paresthesia
         7820
78202
                   Hyperesthesia
78341
         7834
                   Failure To Grow/Thrive
78342
         7834
                   Short Stature
78401
         7840
                   Headache, Musculoskeletal
78403
         7840
                   Headache, Post-Traumatic
78421
         7842
                   Mass, Neck, Cystic
78422
         7842
                   Mass, Neck, Nos
78431
         7843
                   Aphasia, Broca's
78432
                   Aphasia, Wernicke's
         7843
78433
         7843
                   Aphasia, Conduction
78434
         7843
                   Aphasia, Global
78435
         7843
                   Aphasia, Nos
78436
         7843
                   Mutism
7844
         78440
                   Voice Disorder Nec
78442
         78449
                   Resonatory Problem
78447
         78449
                   Dysphonia
78448
         78449
                   Hoarseness
78451
         7845
                   Dysarthria
78452
         7845
                   Rate Problems
78453
         7845
                   Articulation Disorder
78454
         7845
                   Foreign Accent
         7845
78455
                   Depressed Language Skills
78456
         7845
                   Deaf Speech
78457
         7845
                   Dysphasia
78457
         78461
                   Dyslexia
78468
         78469
                   Apraxia
         7849
78491
                   Tongue Thrusting
78540
         7854
                   Gangrene, Dry, Non-Diabetic
78541
         7854
                   Gangrene, Dry, Diabetic
78542
         7854
                   Gangrene, Moist, Non-Diabetic
78543
         7854
                   Gangrene, Moist, Diabetic
78561
                   Lymphadenopathy, Cervical
         7856
78562
         7856
                   Lymphadenopathy, Inguinal
         7869
786
                   Respiratory System & Other Chest Symptoms
7860
         78600
                   Dyspnea
78604
         78609
                   Wheeze
78631
         7863
                   Hemorrhage, Pulmonary
7865
         78650
                   Pain, Chest
78653
         78651
                   Precordial Catch
788
         7889
                   Urinary System Symptoms
78801
         7880
                   Ureteral Colic
78831
         7883
                   Enuresia
78832
         7883
                   Incontinence, Stress, Male
7886
         7881
                   Difficulty Voiding
789
         7899
                   Abdomen/Pelvis Symptoms
78901
         7890
                   Colic, Infantile
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EXTCD
         ICD-9-CM DESCRIPTION
                  Mass, Adnexal
78931
         7893
         7893
78932
                  Mass, Pelvic
79060
         7906
                   Hyperglycemia
         7906
79061
                  Hyperuricemia
         7919
                   Urine Test, Sediment Abnormality
79191
79551
         VO11
                   Tuberculosis Contact
                   Clinical Findings, Abnormal, Non-Spec
796
         7964
79901
         7990
                  Hypoxemia
                   Tuberculin Skin Test, Positive
7995
         7955
                  Chromosomal Disorder
7998
         7589
79981
         7800
                  Drowsiness
79982
         797
                   Confusion
79983
         7807
                  Weakness
                  DX/Cond Defer Axis I/II
79990
         7999
800
         80000
                  Fracture, Skull Vault
8000
         80000
                  Fracture, Skull, Vault W/O Intracran Inj
801
         80100
                  Fracture, Skull Base
                   Fracture, Skull, Base W/O Intracran Inj
8010
         80100
802
         80100
                   Fracture, Facial Bones
8022
         80220
                   Fracture, Mandiable
         8024
                  Fracture, Malar Bone
80241
                   Fracture, Zygoma
80242
         8024
80281
         8028
                   Fracture, Orbit
                   Fracture, Skull Nos
8030
         80300
                   Fract, Vert Col W/O Spine CD Inj Cer (Closed)
8050
         80500
                   Fract, Vert Col W/ Spin Code Inj Cerv (Closed)
8060
         80600
                  Fract, Vert Col W/Spin Code Inj Thor (Closed)
8062
         80620
                   Fracture, Ribs, Chest Thrauma (Closed)
8070
         80700
808
         8088
                   Fracture, Pelvis
                   Fracture, Clavicle (Closed)
8100
         81000
8101
         81010
                   Fracture, Clavicle (Open)
         81100
8110
                   Fracture, Scapula (Closed)
                   Fracture, Scapula, (Open)
Fracture, Humerus, Lower (Closed)
8111
         81110
8124
         81240
8130
         81300
                   Fracture, Radius/Ulna, Upper End (Closed)
8134
         81340
                   Fracture, Radius, Distal Third (Closed)
8140
         81400
                   Fracture, Carpal Bones, (Closed)
8160
         81600
                   Fracture, One Or More Phalanges Of Hand
820
         8209
                   Fracture, Femoral Neck
8210
         82100
                   Fracture, Femur (Closed)
82102
         82101
                   Fract, Femoral Shaft, Proximal (Closed)
82103
         82101
                   Fracture, Femoral Shaft, Mid, (Closed)
81104
         82101
                   Fract, Femoral Shaft, Comminuted (Closed)
8212
         82120
                   Fracture, Femur, Lower End, Closed
8215
         82100
                   Fracture, Femur, Unspec
                   Fracture, Tibial Spine (Closed)
8230
         82300
         82381
8234
                   Fracture, Sesamoid, Fibular
         82380
8235
                   Fracture, Sesamoid, Tibial
82361
         82390
                   Fracture, Tibia/Fibula Unspec
8238
         82380
                   Fracture, Lower Leg, Nos (Closed)
825
         82520
                   Fracture, One/More Tarsal & Metatarsal
         82526
                   Fracture, Trans-Talus Dome
82526
82527
         82525
                   Jones-Styloid FX 5th Met
829
         8290
                   Fracture, Nos (Closed)
830
         8300
                   Dislocation, Jaw
831
         83100
                   Dislocation, Shoulder
         83200
832
                   Dislocation, Elbow
833
         83300
                   Dislocation, Wrist
834
         83400
                   Dislocation, Finger
835
         83500
                   Dislocation, Hip
```

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ICD-9-CM DESCRIPTION
EXTCD
836
         83650
                   Dislocation, Knee
83621
         8362
                   Tear Ligament, Ant Cruciate
83622
          8362
                   Tear Ligament, Post Cruciate
839
          8398
                   Dislocation, Site, Nos (Closed)
8390
         83900
                   Dislocation, Cervical, (Closed)
8392
         83920
                   Dislocation, Thoracolumbar, (Closed)
83981
         8398
                   Dislocation, Arm
84091
         8409
                   Strain, Upper Arm
84092
         8409
                   Strain/Overuse, Shoulder
84191
         8419
                   Strain, Forearm
8420
         84200
                   Sprain, Wrist
8421
         84210
                   Sprain, Hand
84392
         8439
                   Strain, Hip
84393
         8439
                   Strain, Thigh
8444
         8448
                   Shin Splints
84491
         8449
                   Strain, Lower Leg
84492
         8449
                   Sprain, Knee
845
         84500
                   Sprain/Strain, Ankle/Foot
8450
         84500
                   Sprain/Strain, Ankle
.8451
         84510
                   Sprain/Strain, Foot
848
         8489
                   Sprain/Strain, Site Nos
8487
         8489
                   Laceration, Tendon
                   Sprain/Strain, Joint (Ligaments)
84891
         8489
84892
         8489
                   Sprain/Strain, Muscles & Tendons
850
         8509
                   Concussion, Acute, Nos
8506
         8500
                   Concussion, Cerebral
                   Cerebral Contusion/Laceration
851
         85180
8518
         85180
                   Laceratn & Contusn, Cerebral w/o IC Wound
8520
         85200
                   Hemorrhage Follow Inj, Subarachnoid, Closed
8522
         85220
                   Hemorrhage Follow Inj, Subdural (Hematoma)
8524
         85240
                   Hemorrhage Follow Inj, Epidural (Hematoma)
8526
         85220
                   Hematoma, Subdural
8527
         85240
                   Hematoma, Epidural
                   Hematoma, Intracranial Follow Inj (Closed) Hematoma, Intracerebral
8530
         85300
8532
         85300
854
         85400
                   Intracranial Injury: Unspec
8540
         85400
                   Injury, Intracranial, Closed
8541
         85410
                   Injury, Head (Open)
8542
         85410
                   Craniocerebral Gunshot Wound
8543
         85400
                   Head Trauma (Closed)
860
         8604
                   Pneumothoraz/Hemothorax, Traumatic, Nos
8650
         86500
                   Injury, Spleen w/o Open Wound Into Cavity
869
         8690
                   Multiple Trauma, Extreme, Internal
8720
         87200
                   Wound, Open, External Ear w/o Complication
87203
         87201
                   Amputation, Auricular
8721
         87210
                   Wound, Open, External Ear, Complicated
8732
         87320
                   Laceration, Nose
         8760
876
                   Open Wound Of Back
87981
         8798
                   Laceration, Simple (<2 Inch)
87982
         8798
                   Laceration, Simple (>2 Inch)
87987
         8798
                   Wound, Puncture
87988
         8798
                   Wound, Stab
87989
         8798
                   Wound, Gunshot
87991
         8799
                   Amputation, Traumatic, Open Wound
87995
         8798
                   Bite, Animal
8800
         88009
                   Wound, Open, Shoulder/Upper Arm w/o Comp
881
         88100
                   Wound, Open, Elbow/Forearm/Wrist
8810
         88100
                   Wound, Open, Elbow/Forearm/Wrist w/o Comp
882
         8820
                   Wound, Open, Hand, Except Finger(s) Alone
8835
         8830
                   Injury, Soft Tissue, Fingernail
```

| EXTCD | ICD9-CM | DESCRIPTION |
|----------------|---------------|--|
| 885 | 8850 | Amputation, Thumb, Traumatic |
| 886 | 8860 | Amputation Finger(s) Traumatic |
| 8879 | 8870 | Amuputation, Hand, Traumatic |
| 8879 | 8874 | Amputation, Arm, Traumatic |
| 890 | 8900 | Wound, Open, Hip/Thigh |
| 900 | 9009 | Injury, Blood Vessels, Head/Neck |
| 9000 | 90000 | Injury, Carotid Artery |
| 90033 | 7999 | Other Unk Cause Morbidity/Mortality |
| 9044 | 90440 | Injury, Popliteal Blood Vessels |
| 910 | 9108 | Injury, Superficial, Face/Neck/Scalp |
| 911 | 9118 | Injury, Superficial, Trunk |
| 91181 | 9118 | Superficial Injury, Perineum |
| 913 | 9139 9148 | Injury, Superficial, Elbow/Forearm/Wrist |
| 914 916 | 9148 | Injury, Superficial, Hand, Except Finger Injury, Superficial, Hip, Thigh, Leg, Ank |
| 9169 | 8798 | Bite, Non-Venomous Snake |
| 917 | 9178 | Injury, Superficial, Foot & Toe(s) |
| 918 | 9189 | Superficial Injury, Eye & Adnexa |
| 91811 | 9181 | Abrasion, Corneal |
| 919 | 9198 | Inj, Superficial (Inc Abrasion, Blister) |
| 9200 | 920 | Hemtoma, Nasal Septal |
| 921 | 9219 | Contusion Of Eye And Adnexa |
| 92241 | 9224 | Contusion, Vulva |
| 923 | 9239 | Contusion, Upper Limb |
| 9231 | 92310 | Contusion, Elbow/Forearm |
| 9232 | 92320 | Contusion, Upper Limb, Wrist/Hand |
| 924 | 9249 | Contusion, Lower Limb & Unspec Sites |
| 9242 | 92420 | Contusion, Ankle & Foot, Excluding Toe(s) |
| 930 | 9309 | Foreign Body, Eye, External |
| 940 9440 | 9409 94408 | Burn Confined To Eye & Adnexa Burn, Wrist/Hands, Unspec Degree |
| 945 | 94500 | Burn, Lower Limb |
| 949 | 9490 | Burn, Nos |
| 9496 | 9490 | Burn, Chemical |
| 94971 | 94800 | Burn, Thermal, <5% Body Surface |
| 94972 | 94810 | Burn, Thermal, 6-15% Body Surface |
| 94973 | 94810 | Burn, Thermal, 16% Or More Body Surface |
| 950 | 9509 | Injury To Optic Nerve & Pathways |
| 951 | 9518 | Injury To Other Cranial Nerves (Exc II) |
| 95101 | 9519 | <pre>Inj, Cranial Nerve(s) 3-12 (Noniatrogenic)</pre> |
| 952 | 9529 | Injury, Spinal Cord, W/O Bone Injury |
| 953 | 9539 | Injury, Nerve Roots & Spinal Plexus |
| 95340 | 9534 | Injury, Brachial Plexus, Traumatic |
| 95341 955 | 9534 9559 | Injury, Brachial Plexus, Other Injury, Peripheral Nerve(s) Upper Extrem |
| 956 | 9569 | Injury, Peripheral Nerve(s) Lower Extrem |
| 95790 | 3449 | Paralysis, Traumatic Nos |
| 95791 | 9579 | Injury, Peripheral Nerve |
| 95792 | 9579 | Repair, Peripheral Nerve |
| 95880 | 9588 | Compartment Syndrome, Nos |
| 95881 | 9588 | Compartment Syndrome, Acute |
| 95882 | 9588 | Compartment Syndrome, Chronic |
| 959 | 9599 | Injury, Other, Unspec |
| 95900 | 9590 | Trauma, Nose |
| 95901 | 9590 | Trauma, Neck w/Organ Involvement |
| 95902 | 9590 | Trauma, Neck w/o Organ Involvement |
| 95905 | 47830 | Inj, Traumatic/Acute Vocal Cord Paralysis |
| 95906 | 9590 9597 | Trauma, Ear |
| 95971 95990 | 9597 9599 | Injury/Pain, Knee, Nos Sexual Assault |
| フンフプリ | 3377 | DEVAGT UDBOATC |

| EXTCD | ICD-9-CM | DESCRIPTION |
|-------|----------|--|
| 95991 | 9599 | Suicide Attempt |
| 95992 | 9599 | Injury, Traumatic, Nos |
| 95994 | 9598 | Injury, Other Bone & Joint |
| 977 | 9779 | Overdose, Medicine, Accidental/Deliberate |
| 9775 | 9779 | Ingestion, Accidental |
| 9776 | 9779 | Overdose, Suicide Attempt |
| 980 | 9809 | Toxic Effect, Alcohol |
| 982 | 9828 | Toxic Effect, Solvents Nonpetroleum Based |
| 983 | 9831 | Toxic Eff, Aromatics/Acids/Caustic Alkali |
| 98391 | 9831 | Ingestions, Caustic/Acid |
| 984 | 9849 | Toxic Effect, Lead |
| 987 | 9879 | Toxic Effect, Other Gases, Fumes & Vapors |
| 9880 | 6931 | Allergy, Food, Fish & Shellfish |
| 9889 | 6931 | Allergy, Food, Unspec |
| 989 | 9899 | Toxic Effect, Chemicals Nec |
| 98951 | 9895 | Allergy, Fireant |
| 98952 | 9895 | Hymenoptera Hypersensitivity |
| 98954 | 9194 | Insect Bite/Sting |
| 99002 | 990 | Effects Of Radiation, Unspecified |
| 993 | 9939 | Effects Of Air Pressure |
| 99501 | 99550 | Anaphylaxis, Exercise |
| 99502 | 9950 | Anaphylaxis, Miscellaneous |
| 99521 | 9952 | Drug Hypersensitivity, Aspirin |
| 99522 | 9952 | Drug Hypersensitivity, Sulfite |
| 99523 | 9952 | Drug Hypersensitivity, Penicillin |
| 99524 | 9952 | Drug Hypersensitivity, Radiocontrast Media |
| 99525 | 9952 | Drug Hypersensitivity, Insulin |
| 99582 | 99581 | Parent/Other Adult Abuse/Neglect |
| 99604 | 99602 | Malfunction, Prosthetic Valve, Aortic |
| 99605 | 99602 | Malfunction, Prosthetic Valve, Mitral |
| 99606 | 99602 | Malfunction, Prosthetic Valve, Pulmonic |
| 99607 | 99602 | Malfunction, Prosthetic Valve, Tricuspid |
| 99621 | 9962 | Shunt Malfunction |
| 99641 | 9964 | Pseudarthrosis/Broken Rods |
| 99661 | 9966 | Shunt Infection |
| 99681 | 9968 | Complication, Renal Transplant |
| 997 | 9979 | Complication, Affecting Body System, Nec |
| 9977 | 9999 | Complication, Medical |
| 998 | 9989 | Complication, Surgical Procedure |
| 9982 | 9973 | Pneumothorax, Iatrogenic |
| 99891 | 9999 | Complication, Hemodialysis |
| 99892 | 9999 | Complication, Peritoneal Dialysis |
| 999 | 9999 | Complication, Medical Care |
| 99901 | 9999 | Complication, Vaccination, Nos |
| | | |

REFERENCES

- Georgoulakis, J.M., Guillen, A.C., Gaffney, Cherry L., Akins, S.E., Bolling, D.R. & Austin, V.R. (1990). Evaluation of Ambulatory Care Classification Systems For the Military Health Care System (Report No. HR90-002B). Fort Sam Houston, TX: U.S. Army Health Care Studies & Clinical Investigation Activity.
- Georgoulakis, J.M., Moon, J.P., Akins, S.E., Begg, I. Misener, T.R., & Bolling, D.R. (1988). The Army Ambulatory Care Data Base (ACDB): Implementation and preliminary data (Report No. HR88-002). Fort Sam Houston, TX: U.S. Army Health Care Studies & Clinical Investigation Activity. (NTIS: ADA203196).
- Guillen, A.C., Georgoulakis, J.M., Ellis-Billingsley, J.,
 Gaffney, Cherry, L., & Bolling, D.R. (1992). <u>Development of a</u>
 <u>Military Ambulatory Health Care Cost Methodology</u> (In Press).
 Fort Sam Houston, TX: U.S. Army Health Care Studies &
 Clinical Investigation Activity.
- Tenan, P.M., Fillmore, H.H., Caress, B., Kelly, W.P., Nelson, H., Grazino, D., & Johnson, S.C. (1988). <u>PACs: Classifying Ambulatory Care Patients and Services For Clinical and Financial Management</u>. <u>Journal of Ambulatory Care Management</u>, 11 (3), 36-53.
- Polit, D.F. & Hungler, B.P. (1983). <u>Nursing Research</u>, <u>Principles</u> and <u>Methods</u> (3rd ed.). Philadelphia: J.B. Lippincott Company.

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